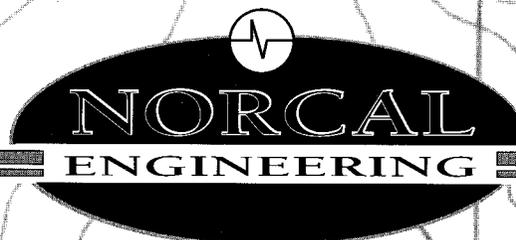


**Report of Geotechnical Observation and  
Testing of Site Grading Operations  
Harborgate Way Development  
West of Harborgate Way between  
190<sup>th</sup> Street and 203<sup>rd</sup> Street  
Los Angeles, California**



**SOILS AND GEOTECHNICAL CONSULTANTS**

**Report of Geotechnical Observation and  
Testing of Site Grading Operations**  
Harborage Way Development  
West of Harborage Way between  
190<sup>th</sup> Street and 203<sup>rd</sup> Street  
Los Angeles, California

Prepared For:

Boeing Realty Corporation  
4060 Lakewood Boulevard  
Long Beach, California 90808-1700

Attn: Mr. Johnny Marasco

Project Number 5936-96  
December 23, 1999

# NorCal Engineering

Soils and Geotechnical Consultants  
10641 Humbolt Street Los Alamitos, CA 90720  
(562) 799-9469 Fax (562) 799-9459

December 23, 1999

Project Number 5936-96

Boeing Realty Corporation  
4060 Lakewood Boulevard  
Long Beach, California 90808-1700

Attn: Mr. Johnny Marasco

**RE: Report of Geotechnical Observation and Testing of Site Grading Operations** – Proposed Harborgate Way Development – Located West of Harborgate Way between 190<sup>th</sup> Street at 203<sup>rd</sup> Street, in the City of Los Angeles, California (Legal Description: Tract No. 52172 Lots 1 through 12 and 15 through 20 and Tract No. 52172-03 Lots 2 through 4)

Dear Mr. Marasco:

Pursuant to your request, this firm has geotechnically observed and tested site grading operations at the above referenced project. Results of the compaction tests are attached and locations of these tests are shown on the accompanying Site Plan. All work was performed in accordance with our Geotechnical Investigation dated March 18, 1996, Project Number 5936-96 and all present day standards of the Geotechnical Engineering Industry.

## **Site Grading**

All vegetation and demolition debris was stripped and removed from the fill area prior to grading operations. The existing low density soils were removed to competent native soils, the exposed subgrade scarified moisture conditioned and then recompacted to a minimum of 90% relative compaction. All excavations were observed and approved by this firm prior to placement of fill material.

Fill soils placed were compacted to a minimum of 90% of the laboratory standard in lifts not in excess of eight inches in thickness. The maximum depth of fill placed was 11 feet. Conventional earthmoving equipment was utilized for compaction control. A water truck provided moisture control. The approximate limits of compacted fill are indicated on the attached Site Plan.

Import soils were generally approved for use on site by their expansion index and maximum density characteristics. Direct shear testing of the soils should be included as a part of a site-specific geotechnical investigation once development plans are decided on.

#### **Laboratory/Field Testing**

The relative compaction was determined by Sand Cone Method (ASTM: D1556-82) and by the Drive Tube Method (ASTM: D2937). The maximum density of the fill soils was obtained by the laboratory standard (ASTM: D1557-91) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every two feet in depth of fill placed. Results of field density tests are presented in Table II.

#### **Recommendations**

Development of the site is feasible based upon our observations and testing of grading operations. Prior to development of any portion of the site, a detailed subsurface geotechnical investigation should be undertaken to provide remedial grading and construction recommendations specific to the planned development. Complete building and grading plans should be reviewed by the soils engineer prior to construction.

#### **Conclusions**

Fill soils are currently classified as "secondary" and are suitable for support of additional fill soils, slabs and pavement. (Note: A detailed subsurface investigation including proper laboratory analysis of the graded soils may be completed in order to change the classification of the graded fill to "primary", and suitable for support of structural foundations).

The geotechnical engineering aspects of the grading have been observed and are in compliance with the geotechnical engineer's recommendations. The development has been graded to the approval of this firm and is suitable for its intended use.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,  
NORCAL ENGINEERING

*Keith D. Tucker*

Keith D. Tucker  
Project Engineer  
R.G.E. 841



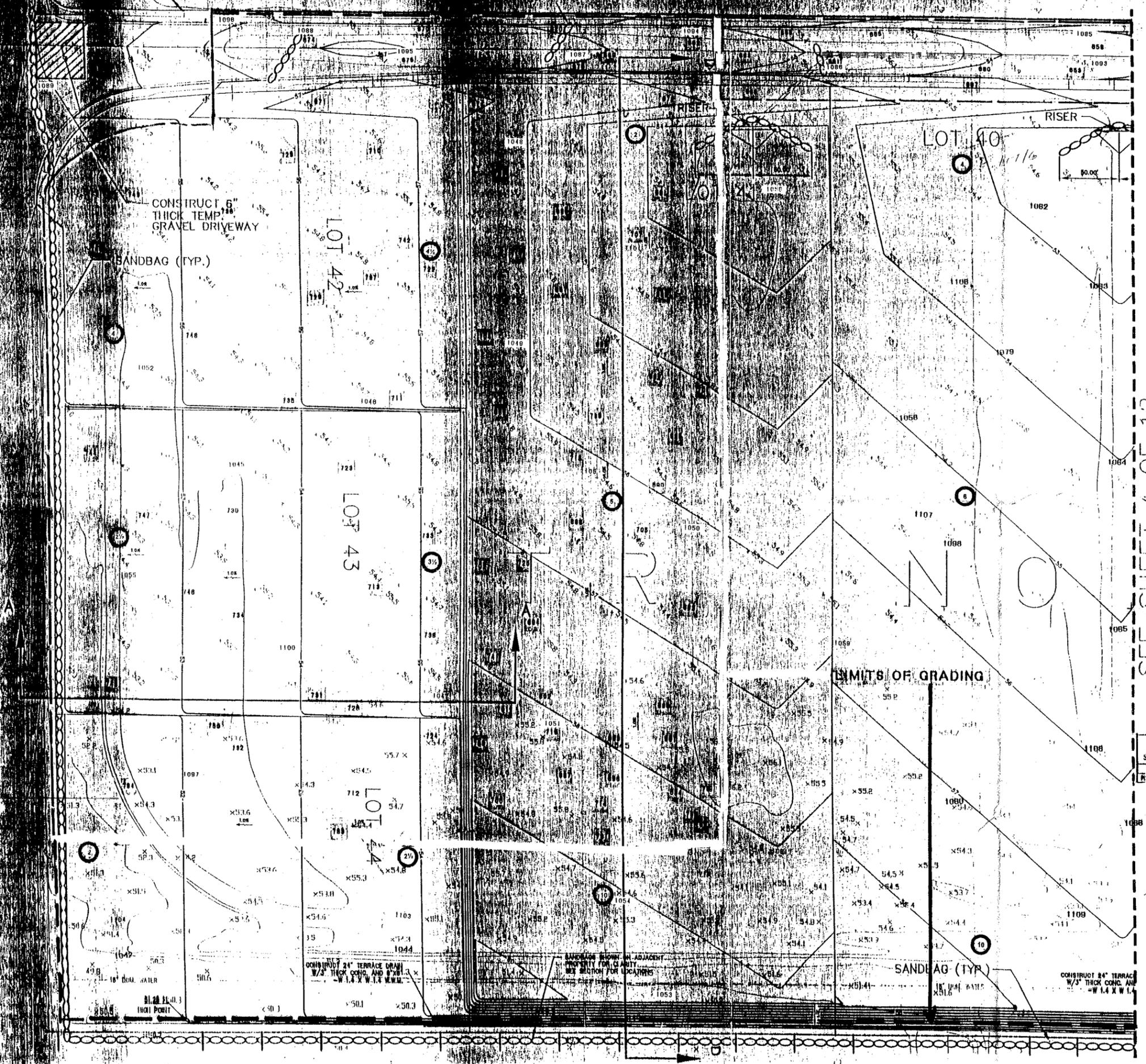
*Gregory H. Bennett*

Gregory H. Bennett  
Project Manager

NorCal Engineering

WESTERN AVENUE

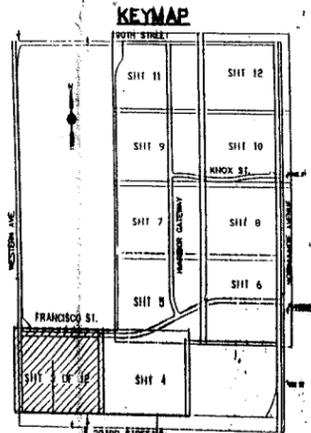
SEE SHEET 4 OF 12



○ = DEPTHS OF ENGINEERED FILL (IN FEET)

**NorCal Engineering**  
SOILS AND GEOTECHNICAL CONSULTANTS  
MARKET 6936-96 DATE: JANUARY 2000 FIGURE 1 OF 8

LOCATION OF COMPACTION TESTS



**TAT & ASSOCIATES, INC.**  
1100 TOWN & COUNTRY,  
SUITE 1200,  
P.O. Box 4409  
Orange, California 92668  
(714) 560-8200  
(714) 560-8201 FAX  
Phonema 7/2

**BOEING REALTY CO.**  
4080 LAKEWOOD BLVD., 6TH FLOOR  
LONG BEACH, CA 90808-1700  
LOS ANGELES, CA

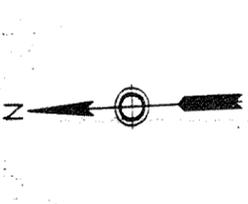
**HARBOR GATEWAY**

PROJECT: TITLE: DRAWN: J.V. DATE: 04/10/98 CK'D: P.C. DATE: REVISION NO: DATE: JOB NO.: 92-3995

BY DATE CHK

SEE SHEET 3 OF 12

SEE SHEET 5 OF 12



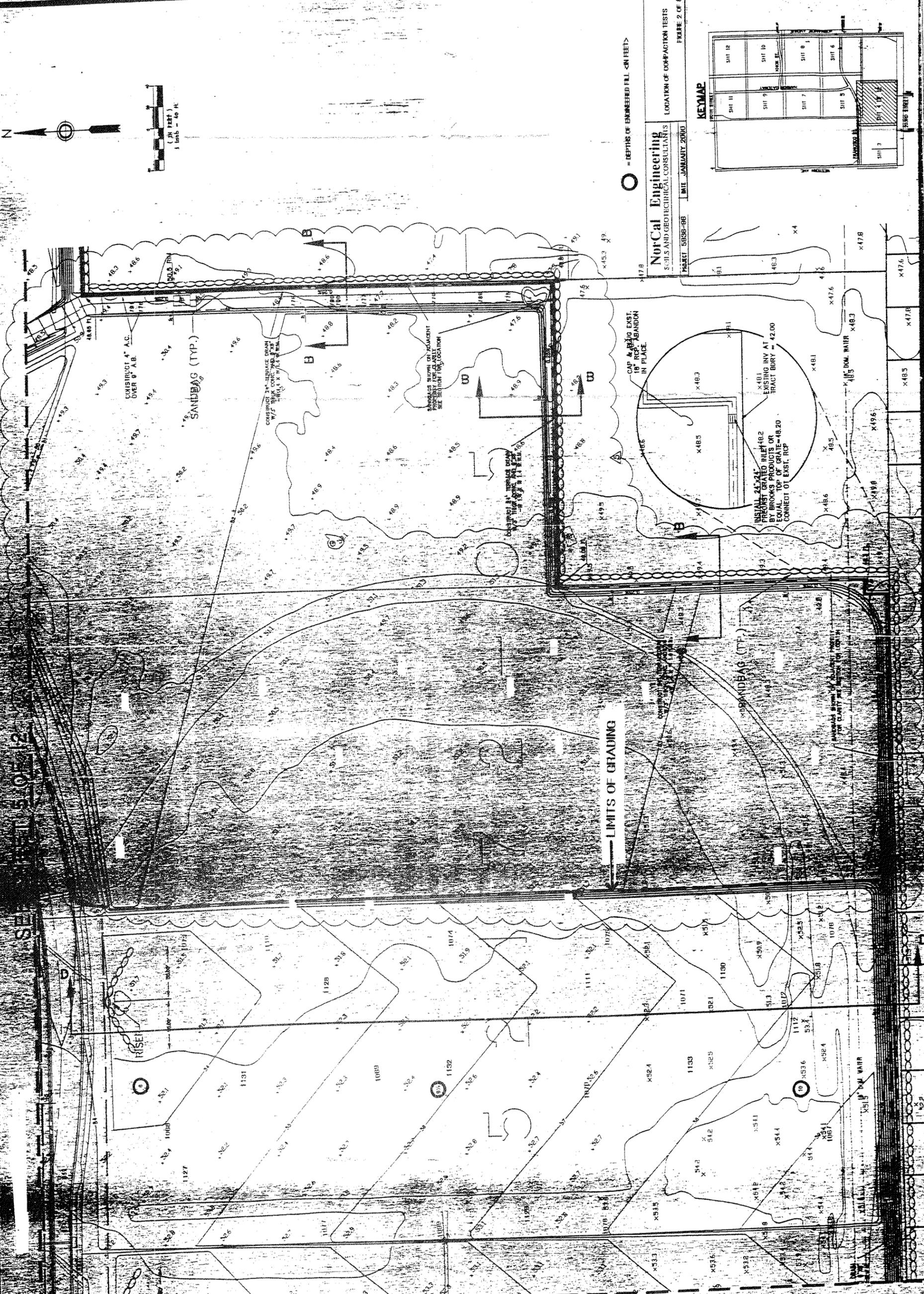
<b>REV. GRADE LOT 13 FOR DUMPS ROAD 10/28/98</b> Δ ADDED DRAIN INLET Δ REVISED SLOPE AT INLET 5/4/99 Δ REVISED LOTS 13 & 14 5/18/99 Δ BR DAVIS CH		<b>REASONS</b> NO. DESCRIPTION 1.	
<b>REV. GRADE LOT 13 FOR DUMPS ROAD 10/28/98</b> Δ ADDED DRAIN INLET Δ REVISED SLOPE AT INLET 5/4/99 Δ REVISED LOTS 13 & 14 5/18/99 Δ BR DAVIS CH		<b>REASONS</b> NO. DESCRIPTION 1.	

**TNT & ASSOCIATES, INC.**  
 1100 TOWN & COUNTRY, SUITE 1200  
 P.O. Box 4423  
 Orange, California 92668  
 (714) 590-8200  
 (714) 590-8211 FAX

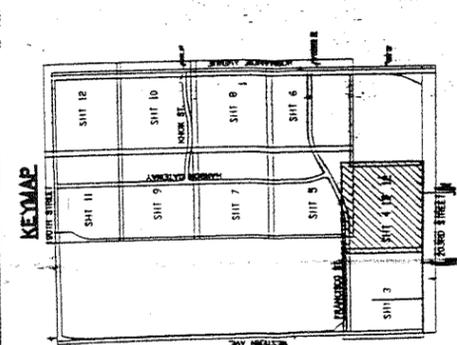


**BOEING REALTY CO.**  
 4080 LAKEWOOD BLVD., 6TH FLOOR  
 LONG BEACH, CA 90808-1700  
 LOS ANGELES, CA  
**HARBOR GATEWAY**

**GRADING PLAN**  
 TITLE: PROJECT: 5858-86 DATE: JANUARY 2000  
 DRAWN: LV DATE: 06/02/98  
 CHECKED: P.C. DATE: 5/18/99  
 REVISION NO: 5  
 JOB NO: 5858-86



**NorCal Engineering**  
 SOILS AND GEOTECHNICAL CONSULTANTS  
 PROJECT 5858-86 DATE JANUARY 2000



○ = DEPTHS OF ENGINEERED FILL (IN FEET)

CONSTRUCT 4" A.C. OVER 6" A.B.  
 SANDBAG (TYP.)  
 CONSTRUCT 4" A.C. OVER 6" A.B.  
 SANDBAG (TYP.)

CONSTRUCT 4" A.C. OVER 6" A.B.  
 SANDBAG (TYP.)  
 CONSTRUCT 4" A.C. OVER 6" A.B.  
 SANDBAG (TYP.)

CAP & BAG EXIST. 18" RCP. ABANDON IN PLACE.

INSTALL 24" X 24" PRECAST GRATED INLET BY BROOKS PRODUCTS OR EQUAL. TOP OF GRATE = 48.20. CONNECT TO EXIST. RCP.

LIMITS OF GRADING

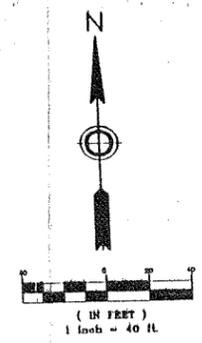
18" DOM. WATER  
 18" DOM. WATER

18" DOM. WATER  
 18" DOM. WATER



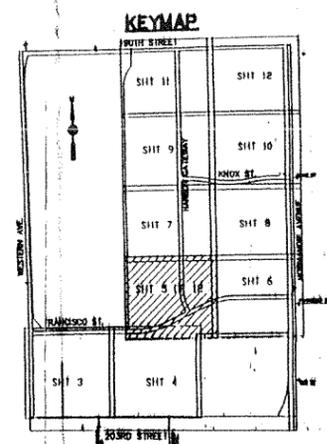
SEE SHEET 4 OF 12

SEE SHEET 6 OF 12



○ = DEPTHS OF ENGINEERED FILL <IN FEET>

<b>NorCal Engineering</b> SOILS AND GEOTECHNICAL CONSULTANTS		LOCATION OF COMPACTION TESTS
PROJECT 5838-98	DATE JANUARY 2000	FIGURE 3 OF 8



<b>TAIT &amp; ASSOCIATES, INC.</b> TOWN & COUNTRY, 1100 TOWN & COUNTRY, SUITE 1200 P.O. Box 4429 Orange, California 92668 (714) 560-8200 FAX (714) 560-8211		RAISED LOT 2 ± REV. GRADE LOT 11 FOR DWPPS ROAD 10/28/98 Rev Lots 13 & 14
GRADING PLAN BOEING REALTY CO. 4080 BOEING BLVD., 5TH FLOOR LONG BEACH, CA 90808-1700 HARBOR GATEWAY LOS ANGELES, CA	TITLE:	PROJECT:
DRAWN: J.Y. DATE: 06/02/98 CK'D: P.C. DATE:	REVISION NO. 3 DATE: 5/18/98 JOB NO. 5838	5 OF 12

DATE: 04/10/98  
 DRAWN BY: [unclear]  
 CHECKED BY: [unclear]  
 DATE: 04/10/98  
 PROJECT: [unclear]

BOENG REALTY CO.  
 4090 CRENSHAW BLVD., 8TH FLOOR  
 LOS ANGELES, CA 90008-1700  
 HARBOR GATEWAY  
 LOS ANGELES, CA

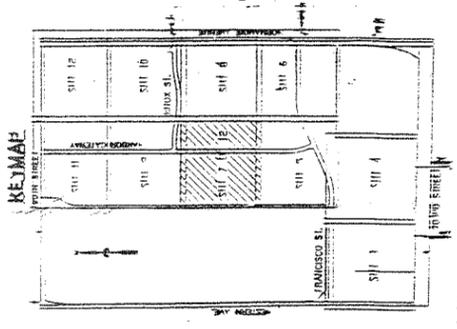


F&A ASSOCIATES, INC.  
 1700 TOWN & COUNTRY  
 SUITE 1200  
 OAKLAND, CALIFORNIA 94612  
 (714) 550-2200  
 (714) 550-2211 FAX

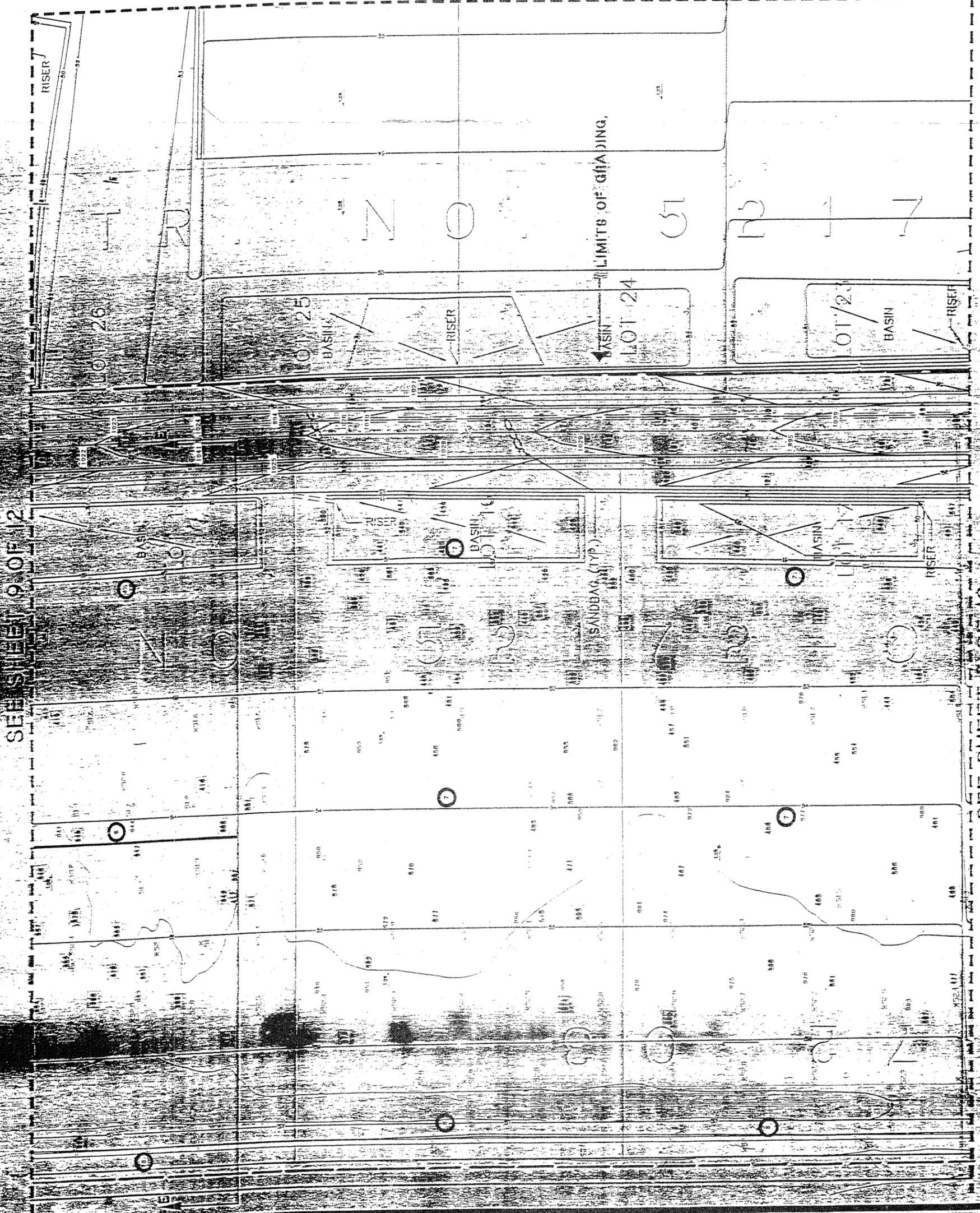
NO.	DESCRIPTION	REVISIONS

NO. CAL Engineering  
 SOILS AND GEOTECHNICAL CONSULTANTS  
 10000 WILSON BLVD., SUITE 100  
 BIRMGHAM, AL 35244  
 DATE: JANUARY 2000

LOCATION OF COMPACTION TESTS  
 FIGURE 4 OF 8

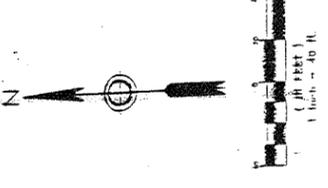


SEE SHEET 8 OF 12

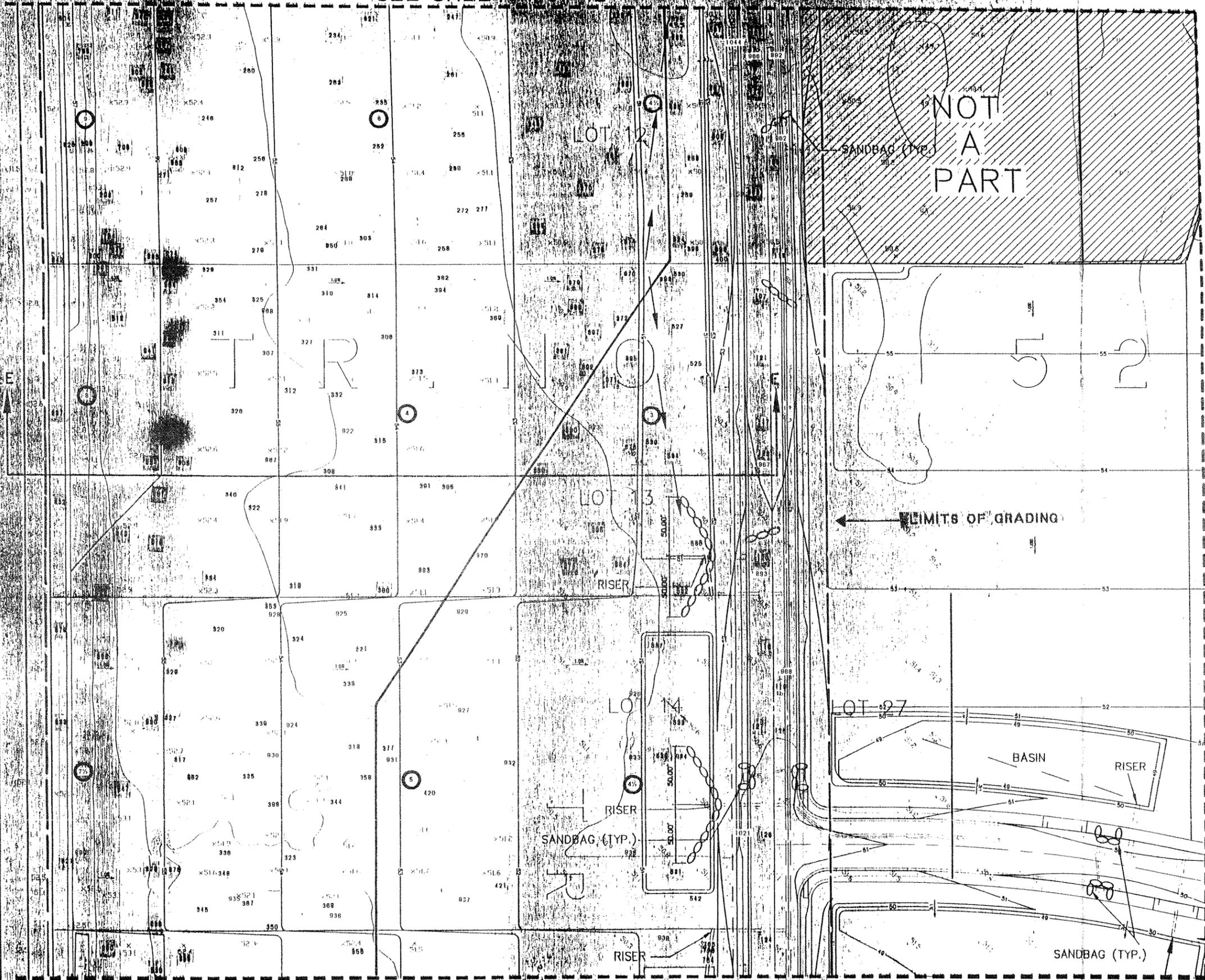


SEE SHEET 9 OF 12

SEE SHEET 5 OF 12

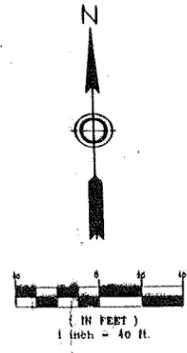


SEE SHEET 11 OF 12



SEE SHEET 7 OF 12

NOT A PART



SEE SHEET 10 OF 12

○ DEPTHS OF ENGINEERED FILL <IN FEET>

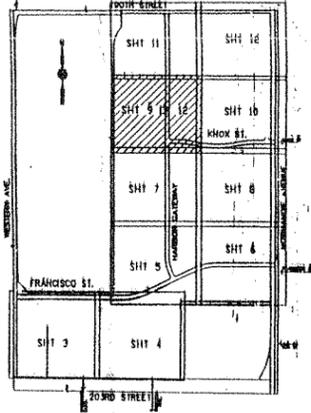
NorCal Engineering  
SOILS AND GEOTECHNICAL CONSULTANTS

LOCATION OF COMPACTION TESTS

PROJECT 8888-388 DATE JANUARY 2000

FRAME 5 OF 8

KEYMAP

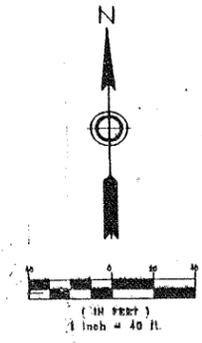
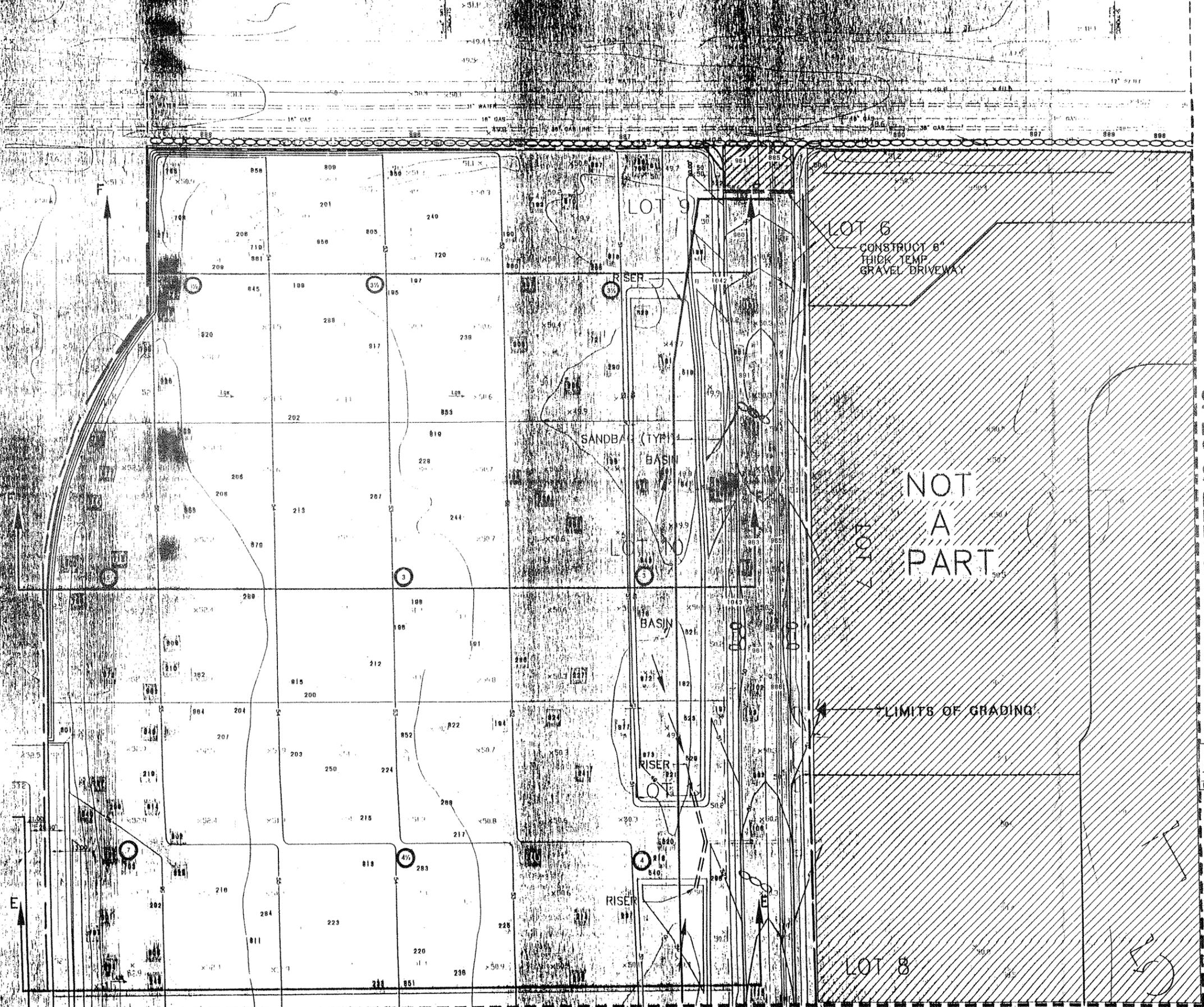


**TAIT & ASSOCIATES, INC.**  
TODD TOWN & COUNTRY,  
SUITE 1200  
P.O. Box 4429  
Orange, California 92668  
(714) 560-8200  
(714) 560-8211 FAX  
Phoenix, AZ

**TAIT**

**GRADING PLAN**  
BOEING REALTY CO.  
4080 LAKEWOOD BLVD., 6TH FLOOR  
LONG BEACH, CA 90808-1700  
HARBOR GATEWAY  
LOS ANGELES, CA

DRAWN: J.V.  
DATE: 04/10/98  
CHECKED: P.C.  
DATE: 04/10/98  
REVISION NO:  
DATE:  
JOB NO: 8888-388



SEE SHEET 12 OF 12

SEE SHEET 9 OF 12

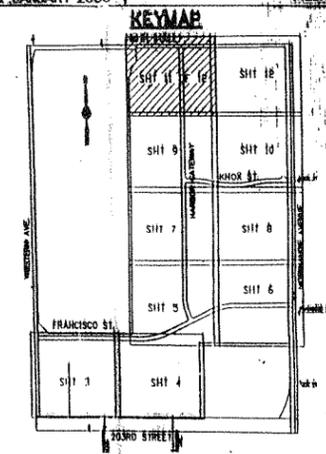
○ DEPTHS OF ENGINEERED FILL (IN FEET)

**NorCal Engineering**  
SOILS AND GEOTECHNICAL CONSULTANTS

LOCATION OF COMPACTION TESTS

PROJECT 6988-88 | DATE JANUARY 2000

FIGURE B OF B



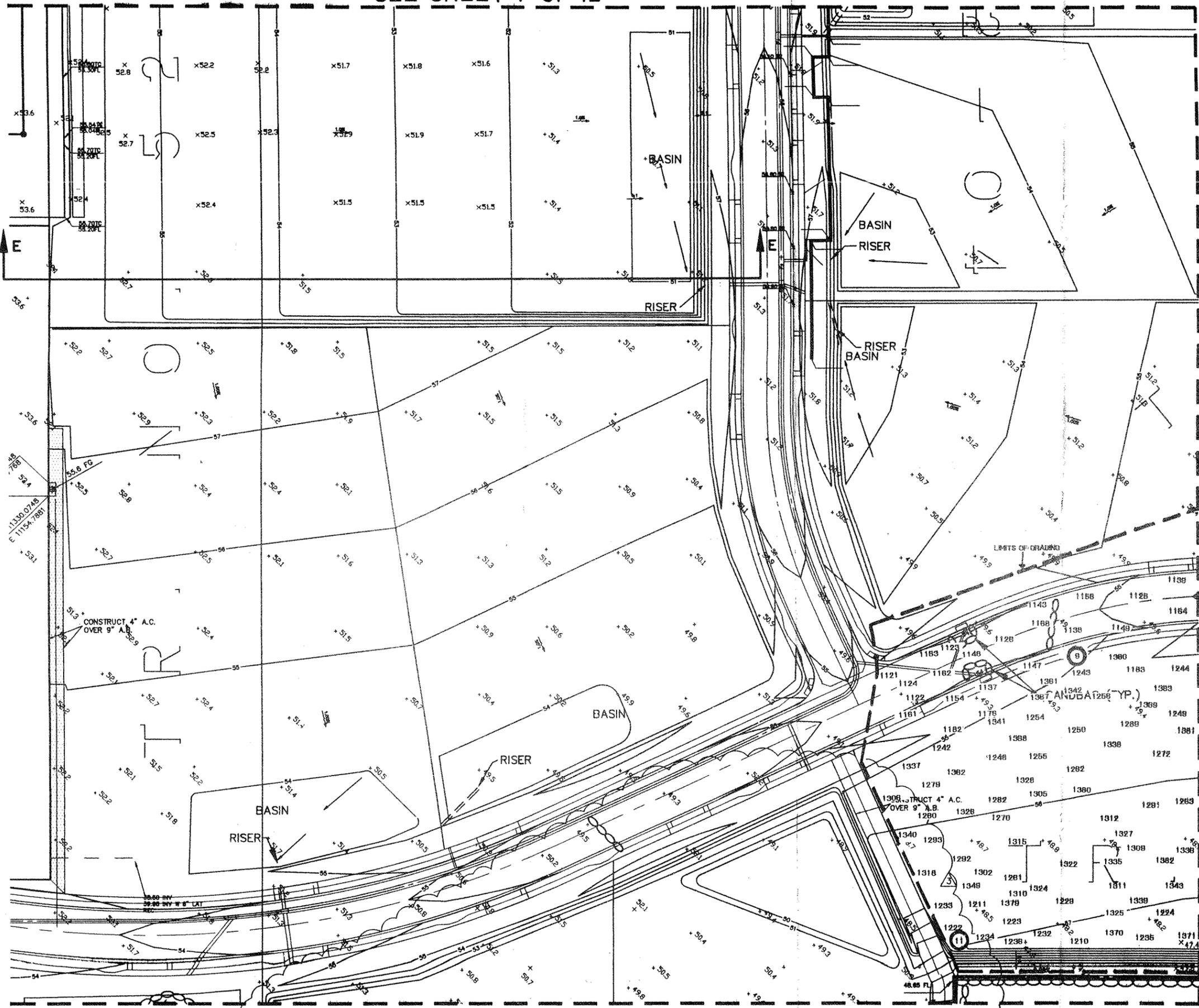
**TAT & ASSOCIATES, INC.**  
1100 TOWN & COUNTRY,  
SUITE 1200  
P.O. Box 4429  
Orange, California 92668  
(714) 960-6200  
(714) 960-6201 FAX

**TAT**

**GRADING PLAN**  
**BOEING REALTY CO.**  
4060 LAKEWOOD BLVD., 6TH FLOOR  
LONG BEACH, CA 90808-1700  
**HARBOR GATEWAY**  
LOS ANGELES, CA

TITLE:  
DRAWN: LV,  
DATE: 04/10/98  
CK'D: P.C.  
DATE:  
REVISION NO:  
DATE:  
JOB NO: 593788

SEE SHEET 7 OF 12

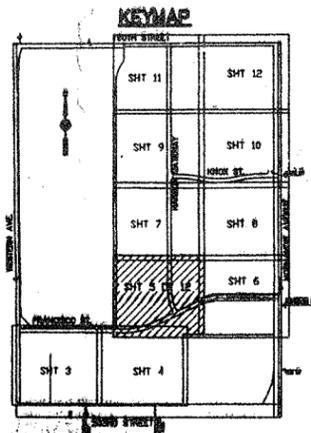


SEE SHEET 6 OF 12

SEE SHEET 4 OF 12

**NorCal Engineering**  
 SOILS AND GEOTECHNICAL CONSULTANTS  
 PROJECT 8838-81 | DATE JANUARY 2000

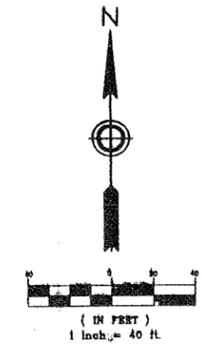
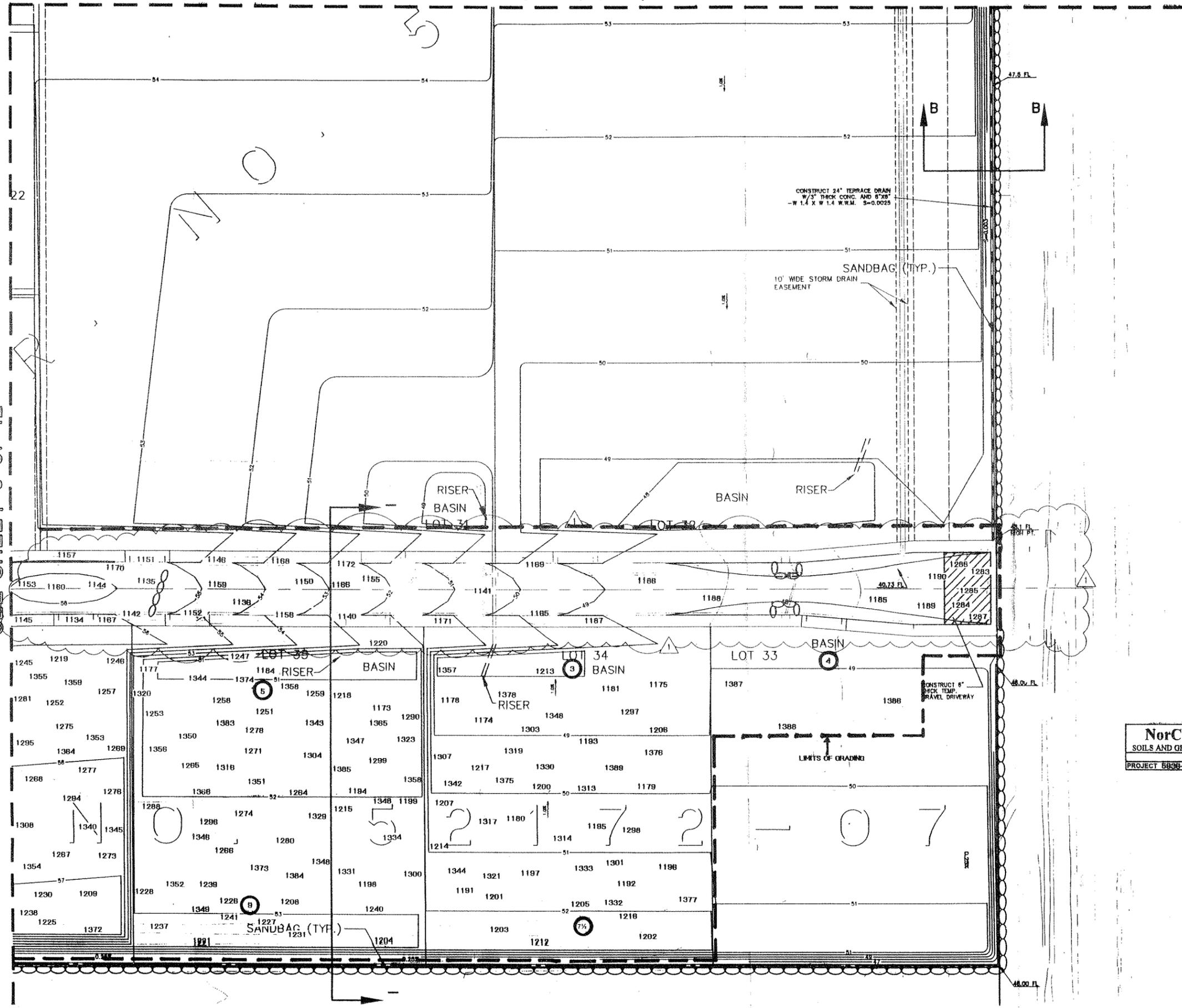
LOCATION OF COMPACTION TESTS  
 FIGURE 7 OF 8



<b>TAT &amp; ASSOCIATES, INC.</b> SUITE 1200 & COUNTRY P.O. Box 4429 Orange, California 92668 (714) 990-8203 (714) 990-8211 FAX San Diego, CA Concord, CA Sacramento, CA Phoenix, AZ	PC	PC	BY DATE CHK
	JV	PC	
	RAISED LOT 2+1 REV. GRADE LOT 11 FOR DWPPS ROAD 10/28/98 Rev Lots 13 & 14		
<b>GRADING PLAN</b> <b>BLISS REALTY CO.</b> 4080 LAUREWOOD BLVD., 6TH FLOOR LONG BEACH, CA 90808-1700 HARBOR GATEWAY LOS ANGELES, CA		TITLE:	PROJECT:
DRAWN: J.V. DATE: 06/02/98 CHKD: P.C. DATE: REVISION NO. 3 DATE: 5/18/98 SHEET NO. 573208	8 OF 12		

BOE-C6-0095636

SEE SHEET 5 OF 12

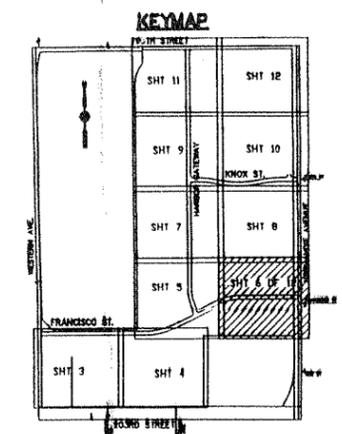


**NorCal Engineering**  
SOILS AND GEOTECHNICAL CONSULTANTS

PROJECT 8836-08 | DATE JANUARY 2000

LOCATION OF COMPACTION TESTS

FIGURE 8 OF 8



**TAT & ASSOCIATES, INC.**  
1100 TOWN & COUNTRY,  
SUITE 1200  
P.O. Box 4429  
Orange, California 92668  
(714) 560-8200  
(714) 560-8211 FAX  
Phoenix, AZ

**RE-ALIGN FRANCISCO**

**BOJING REALTY CO.**  
4860 LAKEWOOD BLVD., 5TH FLOOR  
LONG BEACH, CA 90808-1700  
LOS ANGELES, CA

PROJECT: HARBOR GATEWAY

DATE: 06/02/98  
DRAWN: J.V.  
CHECKED: P.C.  
DATE: DATE: REVISION NO:  
DATE: DATE: REVISION NO:  
JOB NO: SP3285

BC-PR #1  
P#3/3  
0.3.98

8 OF 12

**TABLE I**  
**MAXIMUM DENSITY TESTS**  
**(ASTM: D1557-91)**

<u>Sample</u>	<u>Classification</u>	<u>Optimum Moisture</u>	<u>Maximum Dry Density (lbs./cu.ft.)</u>
I	Silty CLAY	14.0	110.0
II	Silty CLAY	13.0	112.0
III	Silty CLAY with gravel	15.0	121.0
IV	Clayey SILT	12.0	121.0
V	Silty, sandy CLAY with gravel	10.5	128.0
VI	Silty, sandy CLAY with occasional gravel	15.0	118.0
VII	Silty CLAY with occasional gravel	13.5	119.0
VIII	Clayey silty SAND	14.0	117.0
IX	Clayey SAND slightly silty with gravel	9.5	127.0
X	Gravelly clayey SAND	9.0	128.0
XI	Clayey silty sandy with occasional gravel	11.0	125.0
XII	Clayey silty sandy with asphalt and gravel	8.5	126.0
XIII	SAND fine to medium grained, clayey, silty with gravel	10.0	126.0
XIV	Silt and Sand with shale fragments	18.0	100.0
XV	SAND fine to medium grained, silty, slightly clayey	17.0	112.0
XVI	SAND fine to medium grained, slightly silty	10.0	125.0
XVII	Silt and Sand with shale fragments	18.0	103.0
XVIII	SAND fine to medium grained, slightly silty with occasional gravel	11.0	120.0

**TABLE I**  
**MAXIMUM DENSITY TESTS**  
**(ASTM: D1557-91)**

<u>Sample</u>	<u>Classification</u>	<u>Optimum Moisture</u>	<u>Maximum Dry Density (lbs./cu.ft.)</u>
XIX	SAND fine to medium grained, silty with shale fragments and occasional gravel	15.0	115.0
XX	Crushed Miscellaneous Base	7.5	130.0
XXI	slightly silty clayey SAND	12.0	122.0
XXII	SAND fine to medium grained, slightly silty with occasional gravel	9.5	119.0
XXIII	SAND fine to medium grained, slightly silty	10.0	120.0
XXIV	Clayey silty SAND	11.0	121.0
XXV	slightly silty SAND with occasional gravel	10.5	125.0
XXVI	slightly silty SAND	11.0	120.0
XXVII	Crushed Miscellaneous Base	6.0	125.0
XXVIII	sandy silt clayey with fine grained, SAND	15.0	123.0
XXIX	sandy silt clayey with fine grained, SAND	15.0	113.0
XXX	Clayey SILT with some sand	12.5	117.5
XXXI	Silty CLAY with occasional gravel	14.0	115.5
XXXII	Crushed Miscellaneous Base	8.5	125.0
XXXIII	Silty, sandy CLAY with gravel	10.5	125.5

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
6/18/98	101	2.5-3.0	12.9	101.9	93	I
6/18/98	102	3.0-3.5	14.9	104.4	93	II
6/19/98	103	2.0-2.5	15.8	107.9	96	II
6/19/98	104	2.0-2.5	18.3	112.4	93	III
6/19/98	105	1.5-2.0	13.9	111.5	92	III
6/19/98	106	1.0-1.5	17.0	113.7	94	III
6/22/98	107	4.0-4.5	14.8	108.0	96	II
6/22/98	108	4.0-4.5	16.1	101.6	92	I
6/22/98	109	3.0-3.5	18.3	109.0	90	III
6/22/98	110	2.5-3.0	18.8	111.9	93	III
6/22/98	111	0.5-1.0	16.7	109.7	91	III
6/22/98	112	0.5-1.0	17.1	111.0	92	III
6/22/98	113	3.0-3.5	18.1	112.6	93	III
6/22/98	114	2.0-2.5	17.0	115.4	95	III
6/22/98	115	1.0-1.5	17.3	115.1	95	III
6/22/98	116	4.0-4.5	15.1	106.6	95	II
6/22/98	117	4.0-4.5	14.3	104.1	93	II
6/22/98	118	3.0-3.5	15.0	112.9	93	IV
6/22/98	119	3.0-3.5	17.0	106.8	88	III
6/22/98	119A**	3.0-3.5	16.7	111.4	92	III
6/23/98	120	1.0-1.5	17.0	109.4	90	III
6/23/98	121	1.0-1.5	17.8	111.2	92	III
6/23/98	122	0.5-1.0	19.6	112.0	93	III
6/23/98	123	0.0-0.5	16.9	113.8	94	III
6/23/98	124	4.0-4.5	16.2	101.5	92	I
6/23/98	125	2.0-2.5	14.1	113.9	94	IV
6/23/98	126	3.0-3.5	13.6	109.2	90	IV
6/23/98	127	1.0-1.5	16.3	113.5	94	III
6/23/98	128	4.0-4.5	13.3	116.4	96	IV
6/23/98	129	3.0-3.5	16.3	115.2	95	IV
6/23/98	130	1.5-2.0	12.0	120.5	94	V
6/23/98	131	0.5-1.0	11.1	117.0	91	V
6/23/98	132	0.5-1.0	15.8	110.5	91	III
6/24/98	133	4.5-5.0	13.1	111.4	92	IV
6/24/98	134	4.0-4.5	13.7	109.9	91	IV
6/24/98	135	3.5-4.0	15.5	110.8	92	III
6/24/98	136	4.0-4.5	13.8	110.7	92	IV
6/24/98	137	2.0-2.5	17.0	106.8	95	II
6/24/98	138	0.0-0.5	14.8	111.5	92	III
6/24/98	139	0.0-0.5	17.2	115.2	95	III
6/24/98	140	3.0-3.5	14.6	110.8	92	III
6/24/98	141	6.0-6.5	13.8	113.3	94	IV
6/24/98	142	2.5-3.0	17.1	109.3	90	III
6/24/98	143	5.0-5.5	12.7	124.2	97	V

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
6/24/98	144	6.5-7.0	18.3	111.6	92	IV
6/24/98	145	5.5-6.0	12.1	120.4	94	V
6/25/98	146	4.0-4.5	17.5	115.1	95	III
6/25/98	147	3.0-3.5	16.7	109.7	93	VI
6/25/98	148	7.0-7.5	16.3	107.5	93	II
6/25/98	149	6.0-6.5	16.8	117.3	97	IV
6/25/98	150	5.5-6.0	15.3	110.1	93	VII
6/25/98	151	4.0-4.5	19.8	100.2	83	II
6/25/98	151A**	4.0-4.5	17.7	110.5	91	II
6/25/98	152	4.0-4.5	16.6	101.2	92	I
6/25/98	153	4.5-5.0	18.0	112.7	96	VI
6/25/98	154	3.5-4.0	11.8	116.3	91	V
6/25/98	155	7.5-8.0	13.9	112.4	93	IV
6/25/98	156	7.0-7.5	12.9	111.6	92	IV
6/26/98	157	5.0-5.5	15.2	111.1	93	VII
6/26/98	158	4.0-4.5	17.0	115.4	95	III
6/26/98	159	2.0-2.5	16.9	108.6	92	VI
6/26/98	160	3.0-3.5	15.4	109.2	92	VII
6/26/98	161	2.0-2.5	18.3	112.4	95	VI
6/26/98	162	8.0-8.5	14.1	112.2	93	IV
6/26/98	163	8.0-8.5	13.3	112.9	93	IV
6/26/98	164	9.0-9.5	14.9	113.1	94	IV
6/26/98	165	5.0-5.5	12.1	117.8	92	V
6/26/98	166	4.0-4.5	14.6	117.8	92	V
6/26/98	167	8.0-8.5	14.5	111.8	92	IV
6/29/98	168	7.0-7.5	14.0	111.4	94	VII
6/29/98	169	7.0-7.5	14.6	109.9	92	VII
6/29/98	170	6.0-6.5	15.2	111.9	94	VII
6/29/98	171	2.0-2.5	15.1	105.9	95	II
6/29/98	172	0.5-1.0	14.8	109.8	91	III
6/29/98	173	3.0-3.5	17.0	107.7	91	VI
6/30/98	174	0.5-1.0	16.6	111.5	92	III
6/30/98	175	6.0-6.5	16.7	108.0	92	VI
6/30/98	176	5.0-5.5	17.0	115.4	95	III
6/30/98	177	5.0-5.5	15.3	111.0	93	VII
6/30/98	178	4.0-4.5	18.3	107.3	91	VI
6/30/98	179	4.0-4.5	10.3	106.1	89	VII
6/30/98	179A**	4.0-4.5	12.8	111.7	94	VII
6/30/98	180	5.0-5.5	16.5	107.3	91	VI
7/1/98	181	6.5-7.0	13.4	110.2	94	VIII
7/1/98	182	10.5-11.0	15.2	110.2	94	VIII
7/1/98	183	8.5-9.0	15.8	107.9	91	VI
7/1/98	184	6.5-7.0	14.8	110.6	93	VII
7/1/98	185	3.5-4.0	13.3	112.9	93	IV

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
7/1/98	186	5.0-5.5	14.1	110.4	93	VII
7/1/98	187	4.0-4.5	16.6	109.8	91	III
7/1/98	188	3.0-3.5	12.2	111.4	94	VII
7/1/98	189	3.0-3.5	11.6	113.8	96	VII
7/1/98	190	3.5-4.0	14.8	106.3	95	II
7/1/98	191	3.5-4.0	13.6	105.6	94	II
7/2/98	192	2.5-3.0	14.2	109.7	92	VII
7/2/98	193	2.5-3.0	14.1	110.2	93	VII
7/2/98	194	2.5-3.0	14.6	111.5	94	VII
7/2/98	195	3.0-3.5	14.9	101.4	91	II
7/2/98	196	3.5-4.0	14.7	102.6	92	II
7/2/98	197	2.5-3.0	14.8	111.6	94	VII
7/2/98	198	2.5-3.0	14.2	110.2	93	VII
7/2/98	199	3.5-4.0	14.8	103.1	92	II
7/2/98	200	3.5-4.0	14.9	102.5	92	II
7/2/98	201	2.5-3.0	14.6	109.3	92	VII
7/2/98	202	2.5-3.0	14.2	109.9	95	VII
7/2/98	203	2.5-3.0	14.9	112.5	95	VII
7/2/98	204	4.0-4.5	14.0	101.7	90	II
7/2/98	205	3.5-4.0	14.2	103.4	92	II
7/2/98	206	4.5-5.0	14.4	102.3	91	II
7/2/98	207	3.0-3.5	14.7	112.2	94	VII
7/2/98	208	3.0-3.5	15.0	113.7	96	VII
7/2/98	209	3.5-4.0	14.5	110.7	93	VII
7/2/98	210	4.0-4.5	14.1	104.6	93	II
7/2/98	211	6.0-6.5	14.4	102.5	92	II
7/6/98	212	3.0-3.5	9.4	118.8	93	V
7/6/98	213	3.0-3.5	12.7	117.1	97	III
7/6/98	214	4.0-4.5	14.4	106.6	95	II
7/6/98	215	4.0-4.5	15.2	105.9	95	II
7/6/98	216	4.0-4.5	15.8	103.6	93	II
7/6/98	217	3.5-4.0	12.7	117.1	92	V
7/6/98	218	3.0-3.5	14.5	110.9	93	VII
7/6/98	219	3.0-3.5	15.2	107.6	90	VII
7/6/98	220	3.5-4.0	14.9	103.6	92	II
7/6/98	221	5.0-5.5	15.7	106.3	91	VIII
7/6/98	222	5.0-5.5	17.0	107.7	91	VII
7/6/98	223	2.5-3.0	16.3	110.1	91	III
7/7/98	224	2.0-2.5	15.5	109.1	90	III
7/7/98	225	2.0-2.5	14.2	108.6	91	VII
7/7/98	226	3.0-3.5	12.2	110.5	93	VII
7/7/98	227	2.5-3.0	13.4	114.6	95	III
7/7/98	228	2.5-3.0	11.3	103.3	88	VI
7/7/98	228A**	2.5-3.0	14.7	106.4	90	VI

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
7/7/98	229	4.0-4.5	15.9	100.1	91	I
7/7/98	230	4.0-4.5	15.0	106.1	95	II
7/7/98	231	4.5-5.0	14.4	104.9	94	II
7/7/98	232	3.5-4.0	16.1	107.7	92	VIII
7/7/98	233	3.0-3.5	16.6	109.8	91	III
7/7/98	234	3.0-3.5	13.7	109.1	90	III
7/7/98	235	3.0-3.5	15.9	107.9	91	VII
7/7/98	236	2.5-3.0	16.4	106.5	90	VI
7/7/98	237	2.5-3.0	14.6	109.1	92	VII
7/8/98	238	2.0-2.5	14.9	104.4	88	VII
7/8/98	238A**	2.0-2.5	14.6	110.8	93	VII
7/8/98	239	2.0-2.5	16.3	109.0	90	III
7/8/98	240	2.0-2.5	11.3	113.2	88	V
7/8/98	240A**	2.0-2.5	10.9	117.2	92	V
7/8/98	241	1.5-2.0	16.3	108.3	92	VI
7/8/98	242	2.0-2.5	13.9	108.9	91	VII
7/8/98	243	2.5-3.0	14.7	111.6	94	VII
7/8/98	244	0.5-1.0	16.6	109.8	93	VI
7/9/98	245	4.0-4.5	14.7	103.7	93	II
7/9/98	246	4.0-4.5	15.2	105.9	95	II
7/9/98	247	2.0-2.5	14.1	118.3	92	V
7/9/98	248	2.0-2.5	15.2	110.2	93	VII
7/9/98	249	1.0-1.5	16.6	108.9	90	III
7/9/98	250	1.0-1.5	15.7	109.8	93	VI
7/9/98	251	1.5-2.0	12.2	113.6	95	VII
7/9/98	252	3.0-3.5	14.2	110.3	93	VII
7/9/98	253	2.5-3.0	16.6	109.8	91	III
7/9/98	254	3.0-3.5	14.0	105.3	94	II
7/9/98	255	2.0-2.5	14.5	111.8	94	VII
7/9/98	256	2.0-2.5	12.7	119.8	94	VI
7/10/98	257	5.0-5.5	14.5	104.8	94	II
7/10/98	258	6.0-6.5	13.8	105.4	94	II
7/10/98	259	5.0-5.5	15.0	103.5	92	II
7/10/98	260	2.0-2.5	11.2	116.9	91	V
7/10/98	261	1.0-1.5	13.9	108.9	91	VII
7/10/98	262	1.5-2.0	15.2	110.2	93	VII
7/10/98	263	1.5-2.0	16.7	109.7	91	III
7/10/98	264	4.5-5.0	15.5	109.1	90	III
7/10/98	265	0.5-1.0	10.2	118.0	92	V
7/10/98	266	1.0-1.5	16.6	108.9	90	III
7/10/98	267	1.5-2.0	17.0	111.1	92	III
7/10/98	268	0.0-0.5	14.8	111.5	94	VII
7/10/98	269	3.5-4.0	19.7	103.4	86	III
7/10/98	269A**	3.5-4.0	16.7	115.7	96	III

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
7/10/98	270	3.0-3.5	14.6	110.8	93	VII
7/10/98	271	3.0-3.5	15.4	109.2	92	VII
7/13/98	272	2.5-3.0	15.0	104.4	93	II
7/13/98	273	2.5-3.0	11.1	117.0	91	V
7/13/98	274	1.5-2.0	17.3	112.8	93	III
7/13/98	275	1.5-2.0	17.2	109.2	90	III
7/13/98	276	1.5-2.0	14.2	111.2	93	VII
7/13/98	277	1.0-1.5	15.0	108.7	91	VII
7/13/98	278	1.0-1.5	14.5	110.9	92	IV
7/13/98	279	1.0-1.5	11.2	116.9	91	V
7/13/98	280	0.5-1.0	16.6	109.8	93	VI
7/13/98	281	1.0-1.5	12.8	115.5	96	VII
7/13/98	282	0.5-1.0	15.1	109.5	92	VII
7/13/98	283	0.5-1.0	14.9	111.4	94	VII
7/13/98	284	2.0-2.5	16.9	109.2	90	III
7/13/98	285	1.0-1.5	13.9	110.6	93	VII
7/14/98	286	0.5-1.0	14.4	111.0	92	III
7/14/98	287	1.0-1.5	16.8	110.4	91	III
7/14/98	288	0.5-1.0	15.0	108.7	91	VII
7/14/98	289	1.0-1.5	14.5	112.7	95	VII
7/14/98	290	1.0-1.5	16.3	110.1	92	VII
7/14/98	291	1.5-2.0	15.5	109.1	90	III
7/14/98	292	1.0-1.5	16.3	114.4	95	III
7/14/98	293	7.0-7.5	15.8	109.7	94	VIII
7/14/98	294	8.0-8.5	15.0	109.6	94	VIII
7/14/98	295	6.0-6.5	16.1	107.7	92	VIII
7/14/98	296	10.0-10.5	14.2	105.1	94	II
7/14/98	297	10.0-10.5	13.8	107.2	96	II
7/15/98	298	6.0-6.5	19.6	111.2	95	VIII
7/15/98	299	6.5-7.0	14.2	105.1	93	VII
7/15/98	300	5.0-5.5	15.5	105.6	94	II
7/15/98	301	5.0-5.5	16.7	108.9	90	III
7/15/98	302	4.5-5.0	14.6	111.6	92	IV
7/16/98	303	0.5-1.0	11.3	116.8	91	V
7/16/98	304	6.0-6.5	14.1	109.6	91	IV
7/16/98	305	6.0-6.5	13.8	112.5	93	IV
7/16/98	306	6.0-6.5	13.6	111.8	92	IV
7/16/98	307	6.5-7.0	13.0	111.5	92	IV
7/16/98	308	5.5-6.0	14.5	110.0	92	VII
7/16/98	309	1.0-1.5	16.6	108.1	92	VI
7/16/98	310	5.0-5.5	13.8	110.7	92	IV
7/16/98	311	5.0-5.5	13.5	114.5	95	IV
7/16/98	312	4.0-4.5	16.3	104.9	94	II
7/16/98	313	4.0-4.5	15.0	103.4	92	II

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
7/16/98	314	3.5-4.0	14.9	104.3	93	II
7/16/98	315	4.0-4.5	14.5	115.3	95	III
7/17/98	316	5.0-5.5	16.1	102.5	93	I
7/17/98	317	5.0-5.5	15.5	104.3	93	IV
7/17/98	318	5.0-5.5	14.9	102.1	91	II
7/17/98	319	5.0-5.5	17.3	111.7	92	IV
7/20/98	320	3.5-4.0	17.2	108.4	92	VI
7/20/98	321	3.5-4.0	17.0	113.3	94	III
7/20/98	322	3.0-3.5	25.3	98.9	88	II
7/20/98	322A**	3.0-3.5	15.1	111.2	93	VII
7/20/98	323	2.5-3.0	17.0	115.4	95	III
7/20/98	324	2.5-3.0	14.8	109.8	92	VII
7/20/98	325	2.0-2.5	16.6	108.1	91	VII
7/20/98	326	2.0-2.5	17.0	107.7	91	VI
7/20/98	327	1.5-2.0	14.4	110.1	93	VII
7/20/98	328	1.5-2.0	15.0	106.1	95	II
7/20/98	329	2.0-2.5	13.3	111.2	92	IV
7/21/98	330	1.0-1.5	14.9	109.7	92	VII
7/21/98	331	1.0-1.5	15.1	104.3	93	II
7/21/98	332	0.5-1.0	15.5	110.8	93	VII
7/21/98	333	2.5-3.0	17.1	110.2	91	III
7/21/98	334	3.0-3.5	16.8	110.4	91	III
7/21/98	335	2.0-2.5	17.5	113.2	96	VI
7/21/98	336	2.5-3.0	15.4	111.8	94	VII
7/21/98	337	2.0-2.5	18.8	110.3	91	III
7/21/98	338	1.5-2.0	15.3	111.0	93	VII
7/21/98	339	1.0-1.5	14.9	109.7	92	VII
7/21/98	340	1.5-2.0	17.8	109.5	92	VII
7/21/98	341	1.0-1.5	17.2	110.1	91	III
7/22/98	342	7.0-7.5	16.8	104.4	93	II
7/22/98	343	4.0-4.5	15.0	104.3	93	II
7/22/98	344	6.5-7.0	14.2	109.5	90	IV
7/22/98	345	6.0-6.5	14.9	104.4	93	II
7/22/98	346	6.0-6.5	16.5	112.4	93	III
7/22/98	347	6.0-6.5	15.2	109.3	92	VII
7/22/98	348	5.0-5.5	15.5	108.2	91	VII
7/22/98	349	5.0-5.5	17.0	110.2	93	VI
7/22/98	350	4.0-4.5	15.1	112.1	94	VII
7/22/98	351	4.0-4.5	14.0	110.5	91	IV
7/22/98	352	3.0-3.5	16.9	110.4	91	III
7/22/98	353	0.5-1.0	16.6	113.2	94	III
7/22/98	354	0.5-1.0	17.2	107.5	91	VI
7/23/98	355	3.0-3.5	14.6	111.7	94	VII
7/23/98	356	3.5-4.0	12.7	118.0	92	V

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
7/23/98	357	3.0-3.5	16.6	106.3	90	VI
7/23/98	358	3.0-3.5	14.9	111.4	94	VII
7/23/98	359	2.5-3.0	16.9	110.4	91	III
7/23/98	360	0.5-1.0	17.2	110.1	91	III
7/23/98	361	1.0-1.5	15.1	112.1	94	VII
7/23/98	362	0.5-1.0	15.0	114.8	96	VII
7/23/98	363	2.5-3.0	16.9	111.2	92	III
7/23/98	364	2.5-3.0	15.1	111.2	93	VII
7/23/98	365	2.0-2.5	12.2	117.6	92	V
7/23/98	366	2.0-2.5	17.1	110.2	91	III
7/23/98	367	1.0-1.5	15.4	111.8	94	VII
7/23/98	368	1.5-2.0	15.3	114.5	95	III
7/23/98	369	4.0-4.5	15.5	103.9	93	II
7/23/98	370	4.5-5.0	14.8	104.5	93	II
7/23/98	371	4.0-4.5	16.0	103.4	94	I
7/23/98	372	5.0-5.5	15.0	104.4	93	II
7/24/98	373	3.5-4.0	15.8	107.1	96	II
7/24/98	374	3.5-4.0	13.4	118.2	92	V
7/24/98	375	1.5-2.0	25.3	100.6	83	III
7/24/98	375A**	1.5-2.0	16.7	109.7	91	III
7/24/98	376	1.0-1.5	15.2	111.9	94	VII
7/24/98	377	1.0-1.5	14.4	112.3	94	VII
7/24/98	378	1.0-1.5	16.8	113.0	96	VI
7/24/98	379	3.0-3.5	17.0	111.1	92	III
7/24/98	380	2.5-3.0	14.9	113.1	95	VII
7/24/98	381	2.0-2.5	15.2	111.1	93	VII
7/24/98	382	2.5-3.0	15.8	103.6	93	II
7/24/98	383	2.0-2.5	14.9	111.4	94	VII
7/24/98	384	2.0-2.5	17.0	110.3	91	III
7/24/98	385	3.0-3.5	14.6	109.9	92	VII
7/27/98	386	0.5-1.0	16.7	110.5	91	III
7/27/98	387	0.5-1.0	17.2	112.6	93	III
7/27/98	388	0.5-1.0	11.9	116.2	91	V
7/27/98	389	2.0-2.5	15.1	109.5	92	VII
7/27/98	390	1.5-2.0	15.4	112.6	95	VII
7/27/98	391	1.5-2.0	18.3	111.6	92	III
7/27/98	392	2.0-2.5	16.6	109.8	91	III
7/27/98	393	2.5-3.0	15.8	113.9	94	IV
7/27/98	394	1.0-1.5	17.2	112.7	93	III
7/27/98	395	1.5-2.0	16.8	110.4	91	III
7/27/98	396	1.0-1.5	15.2	111.1	93	VII
7/27/98	397	1.0-1.5	16.5	108.2	92	VI
7/27/98	398	10.0-10.5	13.3	111.2	92	IV
7/27/98	399	8.0-8.5	14.7	108.9	92	VII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
7/27/98	400	6.0-6.5	15.4	109.2	92	VII
7/28/98	401	1.0-1.5	12.0	118.6	93	V
7/28/98	402	2.5-3.0	11.7	119.9	94	V
7/28/98	403	3.0-3.5	11.9	120.1	94	V
7/28/98	404	10.0-10.5	13.2	108.6	93	VIII
7/28/98	405	8.0-8.5	16.1	110.7	94	VI
7/28/98	406	6.0-6.5	17.0	111.4	94	VI
7/28/98	407	0.5-1.0	11.2	118.7	93	V
7/28/98	408	3.0-3.5	18.3	111.6	92	III
7/28/98	409	4.0-4.5	15.1	111.2	93	VII
7/28/98	410	5.0-5.5	16.3	110.0	94	VIII
7/28/98	411	3.0-3.5	14.8	104.5	93	II
7/28/98	412	2.0-2.5	17.1	109.3	93	VI
7/29/98	413	8.0-8.5	20.9	99.3	84	VI
7/29/98	413A**	8.0-8.5	12.7	110.6	94	VI
7/29/98	414	7.0-7.5	16.1	108.5	93	VIII
7/29/98	415	7.0-7.5	15.8	107.1	92	VIII
7/31/98	416	6.0-6.5	15.2	107.6	92	VIII
7/31/98	417	6.0-6.5	14.9	109.7	94	VIII
7/31/98	418	5.5-6.0	13.7	112.6	93	IV
7/31/98	419	5.0-5.5	17.0	113.7	94	III
7/31/98	420	5.0-5.5	15.8	108.8	93	VIII
7/31/98	421	4.5-5.0	16.7	111.4	95	VIII
8/3/98	422	8.0-8.5	15.2	109.3	93	VIII
8/3/98	423	8.0-8.5	16.0	107.8	92	VIII
8/3/98	424	7.5-8.0	15.9	110.4	94	VIII
8/3/98	425	7.5-8.0	18.5	112.2	96	VIII
8/3/98	426	6.5-7.0	15.3	109.3	93	VI
8/3/98	427	6.0-6.5	14.8	109.8	92	VII
8/3/98	428	8.5-9.0	15.8	107.1	92	VIII
8/3/98	429	8.0-8.5	16.3	109.2	93	VIII
8/3/98	430	7.5-8.0	16.6	109.8	94	VIII
8/3/98	431	4.0-4.5	15.1	107.7	96	II
8/4/98	432	6.0-6.5	13.1	114.9	95	III
8/4/98	433	6.0-6.5	12.9	116.0	96	III
8/4/98	434	6.5-7.0	16.4	109.1	92	VI
8/4/98	435	6.0-6.5	14.9	111.4	94	VI
8/4/98	436	6.0-6.5	13.2	106.0	91	VIII
8/4/98	437	7.0-7.5	15.0	106.1	91	VIII
8/4/98	438	6.0-6.5	14.3	105.9	91	VIII
8/4/98	439	1.0-1.5	8.9	120.3	94	V
8/4/98	440	1.0-1.5	14.8	108.9	90	III
8/4/98	441	1.0-1.5	12.4	113.9	94	IV
8/5/98	442	4.0-4.5	14.8	106.3	90	VI

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
8/5/98	443	4.0-4.5	12.9	109.8	93	VI
8/5/98	444	6.5-7.0	11.8	111.8	92	IV
8/5/98	445	6.5-7.0	13.1	102.6	92	II
8/5/98	446	9.0-9.5	14.6	106.5	91	VIII
8/5/98	447	0.5-1.0	17.3	110.7	94	VI
8/5/98	448	4.0-4.5	11.7	117.8	92	IV
8/5/98	449	4.0-4.5	10.6	117.5	92	V
8/5/98	450	5.0-5.5	14.6	109.9	91	III
8/5/98	451	7.0-7.5	13.4	107.6	90	VII
8/6/98	452	5.0-5.5	17.0	112.8	96	VI
8/6/98	453	5.0-5.5	11.3	115.9	91	V
8/6/98	454	5.0-5.5	9.8	114.8	95	IV
8/6/98	455	5.5-6.0	11.6	110.2	94	VIII
8/6/98	456	7.0-7.5	12.6	104.8	94	II
8/6/98	457	6.0-6.5	10.8	109.2	90	IV
8/6/98	458	2.0-2.5	11.6	112.9	96	VI
8/6/98	459	2.0-2.5	13.8	111.6	95	VIII
8/6/98	460	4.0-4.5	8.0	116.7	91	V
8/7/98	461	6.0-6.5	15.5	107.4	92	VIII
8/7/98	462	6.0-6.5	16.1	108.5	93	VIII
8/7/98	463	5.0-5.5	15.8	107.9	92	VIII
8/7/98	464	4.0-4.5	15.8	114.9	95	III
8/7/98	465	6.0-6.5	15.9	106.9	91	VIII
8/7/98	466	5.0-5.5	15.0	106.1	95	II
8/7/98	467	5.0-5.5	16.6	108.1	92	VI
8/7/98	468	4.5-5.0	14.2	109.5	92	VII
8/7/98	469	4.0-4.5	15.8	105.4	88	VII
8/7/98	469A**	4.0-4.5	14.7	109.9	92	VII
8/7/98	470	3.5-4.0	16.2	110.2	91	III
8/7/98	471	5.0-5.5	15.8	108.8	91	VII
8/10/98	472	3.0-3.5	14.3	110.2	93	VII
8/10/98	473	4.0-4.5	15.0	106.8	95	II
8/10/98	474	3.5-1.0	14.8	104.5	93	II
8/10/98	475	5.0-5.5	16.6	109.8	94	VIII
8/10/98	476	5.0-5.5	15.5	103.9	94	I
8/10/98	477	4.5-5.0	15.8	104.4	93	II
8/10/98	478	3.5-4.0	14.6	116.1	96	III
8/10/98	479	3.0-3.5	17.2	115.2	95	III
8/10/98	480	2.5-3.0	15.1	113.9	94	III
8/10/98	481	2.5-3.0	15.2	110.2	93	VII
8/11/98	482	2.5-3.0	16.6	108.9	92	VI
8/11/98	483	3.0-3.5	15.1	111.2	93	VII
8/11/98	484	3.0-3.5	16.0	110.3	91	III
8/11/98	485	2.0-2.5	15.7	108.0	92	VI

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
8/11/98	486	2.5-3.0	9.4	118.8	93	V
8/11/98	487	3.0-3.5	15.9	110.4	94	VIII
8/11/98	488	4.0-4.5	13.3	110.3	91	IV
8/11/98	489	2.0-2.5	15.5	115.2	95	IV
8/11/98	490	6.5-7.0	18.3	109.9	94	VIII
8/11/98	491	6.0-6.5	16.7	109.7	94	VIII
8/11/98	492	7.5-8.0	13.8	110.7	91	IV
8/11/98	493	4.0-4.5	15.8	110.5	94	VI
8/11/98	494	4.5-5.0	15.5	107.4	92	VIII
8/11/98	495	4.0-4.5	13.0	111.5	92	IV
8/12/98	496	6.0-6.5	14.2	111.2	93	VII
8/12/98	497	5.0-5.5	19.7	103.6	88	VI
8/12/98	497A**	5.0-5.5	16.7	108.8	92	VI
8/12/98	498	4.5-5.0	15.2	109.3	93	VIII
8/12/98	499	5.5-6.0	13.9	109.5	92	VII
8/12/98	500	4.5-5.0	16.8	107.0	91	VIII
8/12/98	501	3.5-4.0	17.2	109.2	90	III
8/12/98	502	4.0-4.5	16.7	111.4	92	III
8/12/98	503	3.0-3.5	16.9	110.4	91	III
8/12/98	504	2.5-3.0	17.2	110.0	91	III
8/12/98	505	4.5-5.0	15.2	111.1	93	VII
8/12/98	506	3.0-3.5	14.3	110.2	94	VIII
8/20/98	507	5.0-5.5	10.2	116.2	91	IX
8/20/98	508	4.0-4.5	10.9	114.5	90	IX
8/21/98	509	4.0-4.5	9.9	114.6	90	IX
8/21/98	510	3.0-3.5	11.3	116.8	92	IX
8/25/98	511	5.0-5.5	9.7	116.7	91	X
8/25/98	512	5.0-5.5	8.9	118.5	93	X
9/1/98	513	4.0-4.5	12.8	109.9	94	VIII
9/1/98	514	4.0-4.5	14.6	107.3	92	VIII
9/1/98	515	5.0-5.5	15.8	107.9	92	VIII
9/1/98	516	5.0-5.5	13.6	107.4	92	VIII
9/1/98	517	7.0-7.5	16.1	110.2	94	VIII
9/1/98	518	6.0-6.5	12.9	106.3	91	VIII
9/2/98	519	3.0-3.5	10.7	112.9	93	IV
9/2/98	520	3.0-3.5	12.2	112.3	93	IV
9/2/98	521	2.0-2.5	12.8	106.4	88	III
9/2/98	521A**	2.0-2.5	12.5	111.1	93	VII
9/2/98	522	1.0-1.5	15.8	108.8	92	VI
9/2/98	523	0.5-1.0	15.3	109.3	93	VI
9/3/98	524	4.0-4.5	12.2	112.3	94	VII
9/3/98	525	3.0-3.5	18.3	112.4	94	VII
9/3/98	526	3.0-3.5	14.3	113.7	94	III
9/3/98	527	2.0-2.5	13.3	110.3	91	IV

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
9/3/98	528	0.5-1.0	15.4	112.7	95	VII
9/3/98	529	0.5-1.0	17.2	115.2	95	III
9/3/98	530	2.5-3.0	10.2	114.3	94	III
9/3/98	531	4.0-4.5	13.2	113.1	96	VI
9/3/98	532	2.0-2.5	14.8	114.9	95	III
9/3/98	533	3.0-3.5	16.6	108.1	92	VI
9/4/98	534	1.5-2.0	15.3	111.9	92	III
9/4/98	535	1.0-1.5	13.3	110.3	91	IV
9/4/98	536	0.5-1.0	12.3	113.9	91	XI
9/4/98	537	1.5-2.0	12.5	112.9	90	XI
9/8/98	538	1.5-2.0	15.2	111.1	93	VII
9/8/98	539	0.5-1.0	14.6	107.9	91	III
9/8/98	540	0.0-0.5	14.8	109.5	92	VII
9/8/98	541	0.5-1.0	11.6	112.0	93	IV
9/8/98	542	3.0-3.5	9.3	116.2	91	V
9/8/98	543	1.0-1.5	16.6	108.1	92	VI
9/9/98	544	4.0-4.5	12.6	111.9	94	VII
9/9/98	545	4.0-4.5	12.9	111.6	94	VII
9/9/98	546	4.0-4.5	12.7	115.2	92	XI
9/9/98	547	3.5-4.0	12.3	113.9	91	XI
9/9/98	548	3.0-3.5	14.8	109.1	90	III
9/9/98	549	3.0-3.5	14.6	116.1	96	III
9/9/98	550	3.5-4.0	12.4	113.9	91	XI
9/9/98	551	3.0-3.5	10.8	113.7	91	XI
9/9/98	552	3.0-3.5	10.7	121.9	95	V
9/9/98	553	2.5-3.0	13.7	109.1	92	VI
9/10/98	554	3.0-3.5	14.6	104.7	93	II
9/10/98	555	2.5-3.0	6.7	111.5	89	XI
9/10/98	555A**	2.5-3.0	10.3	116.9	94	XI
9/10/98	556	2.5-3.0	9.7	115.8	90	V
9/10/98	557	2.0-2.5	12.3	114.9	92	XI
9/10/98	558	2.0-2.5	13.4	111.1	93	VII
9/10/98	559	2.0-2.5	17.1	109.3	90	III
9/10/98	560	2.0-2.5	14.8	104.5	93	II
9/10/98	561	1.5-2.0	16.9	107.8	91	VI
9/11/98	562	1.5-2.0	13.4	110.2	93	VI
9/11/98	563	1.0-1.5	10.7	110.7	96	V
9/11/98	564	1.0-1.5	13.5	112.7	93	III
9/11/98	565	1.0-1.5	12.5	117.8	94	XI
9/11/98	566	1.0-1.5	11.9	112.5	93	IV
9/11/98	567	1.0-1.5	10.4	118.5	95	XI
9/14/98	568	4.0-4.5	13.6	115.2	95	IV
9/14/98	569	5.0-5.5	10.3	120.0	94	V
9/14/98	570	4.0-4.5	12.8	113.8	94	IV

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
9/14/98	571	4.0-4.5	11.4	118.5	93	V
9/14/98	572	3.5-4.0	16.5	115.9	91	V
9/14/98	573	5.5-6.0	15.8	111.2	94	IV
9/14/98	574	4.5-5.0	14.2	110.1	93	IV
9/14/98	575	3.5-4.0	19.8	108.5	92	VI
9/15/98	576	3.0-3.5	18.3	109.9	91	III
9/15/98	577	3.0-3.5	14.5	115.3	95	IV
9/15/98	578	4.0-4.5	17.0	112.0	93	III
9/15/98	579	6.0-6.5	15.5	108.2	92	VIII
9/15/98	580	6.0-6.5	17.0	112.8	96	VIII
9/15/98	581	6.0-6.5	12.2	112.8	93	III
9/15/98	582	3.5-4.0	15.8	114.0	94	IV
9/15/98	583	4.5-5.0	13.6	100.4	91	I
9/15/98	584	4.0-4.5	14.5	108.1	92	VIII
9/16/98	585	5.0-5.5	19.7	102.8	80	V
9/16/98	585A**	5.0-5.5	12.0	116.1	91	V
9/16/98	586	3.5-4.0	12.7	113.8	91	XI
9/16/98	587	3.0-3.5	14.1	110.4	93	VII
9/16/98	588	2.5-3.0	14.2	109.5	92	VII
9/16/98	589	3.5-4.0	15.8	110.7	93	VII
9/16/98	590	4.0-4.5	16.6	108.1	91	VII
9/16/98	591	3.0-3.5	12.2	115.9	93	XI
9/17/98	592	5.0-5.5	16.0	106.0	91	VIII
9/17/98	593	4.0-4.5	15.8	107.9	92	VIII
9/17/98	594	4.0-4.5	16.7	109.7	91	III
9/17/98	595	3.5-4.0	14.7	106.4	90	VI
9/17/98	596	3.0-3.5	12.3	115.8	93	XI
9/18/98	597	7.0-7.5	10.6	114.8	92	XI
9/18/98	598	6.0-6.5	16.2	107.6	91	VI
9/18/98	599	5.5-6.0	7.8	115.9	92	XII
9/18/98	600	4.5-5.0	16.9	109.5	93	VI
9/18/98	601	7.0-7.5	15.1	108.6	93	VIII
9/18/98	602	6.0-6.5	15.8	116.6	96	III
9/18/98	603	5.0-5.5	9.1	118.2	94	XII
9/18/98	604	5.0-5.5	10.7	113.8	91	XI
9/18/98	605	3.5-4.0	13.4	112.7	93	III
9/18/98	606	7.0-7.5	16.1	107.7	92	VIII
9/21/98	607	4.0-4.5	14.2	110.3	93	VII
9/21/98	608	3.0-3.5	13.2	108.6	91	VII
9/21/98	609	3.0-3.5	17.1	107.6	91	VI
9/21/98	610	2.5-3.0	12.5	113.8	91	XI
9/23/98	611	9.0-9.5	13.8	114.2	94	IV
9/23/98	612	9.0-9.5	13.5	110.1	91	IV
9/23/98	613	8.0-8.5	17.0	111.1	92	III

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
9/23/98	614	4.0-4.5	15.9	103.5	87	VII
9/23/98	614A**	4.0-4.5	14.8	111.5	94	VII
9/23/98	615	8.5-9.0	17.2	109.2	90	III
9/23/98	616	8.0-8.5	15.8	113.9	94	III
9/23/98	617	7.0-7.5	12.7	116.6	93	XI
9/23/98	618	7.0-7.5	14.5	110.0	92	VII
9/23/98	619	3.0-3.5	9.6	118.6	93	V
9/23/98	620	2.0-2.5	17.5	108.9	92	VI
9/23/98	621	6.0-6.5	9.2	117.2	93	XII
9/23/98	622	4.5-5.0	9.6	115.9	92	XII
9/24/98	623	9.0-9.5	13.7	107.2	92	VIII
9/24/98	624	6.0-6.5	16.0	108.6	93	VIII
6/24/98	625	5.0-5.5	15.5	108.2	93	VIII
6/24/98	626	4.0-4.5	14.2	108.6	91	VII
6/24/98	627	2.0-2.5	14.6	111.7	94	VII
6/24/98	628	3.0-3.5	14.7	108.1	92	VI
9/24/98	629	6.0-6.5	9.6	104.9	88	VI
9/24/98	629A**	6.0-6.5	12.9	112.5	93	IV
9/24/98	630	5.0-5.5	12.3	115.8	93	XI
9/24/98	631	2.0-2.5	16.6	109.6	91	III
9/25/98	632	1.0-1.5	17.1	107.6	91	VI
9/25/98	633	1.0-1.5	12.6	113.7	91	XI
9/25/98	634	4.5-5.0	11.1	117.0	91	V
9/25/98	635	3.5-4.0	14.2	109.5	92	VII
9/25/98	636	5.0-5.5	15.5	109.1	92	VI
9/25/98	637	4.0-4.5	13.3	111.2	92	IV
9/25/98	638	4.0-4.5	13.9	112.4	93	IV
9/25/98	639	4.5-5.0	15.3	109.3	93	VI
9/25/98	640	3.0-3.5	9.2	120.9	96	XII
9/25/98	641	3.0-3.5	17.1	106.7	90	VI
9/25/98	642	2.5-3.0	7.8	117.8	94	XII
9/25/98	643	2.5-3.0	12.5	113.8	91	XI
9/25/98	644	1.0-1.5	16.8	107.9	89	III
9/25/98	644A**	1.0-1.5	16.6	109.8	91	III
9/28/98	645	3.5-4.0	9.9	114.5	91	XII
9/28/98	646	3.0-3.5	15.1	109.4	92	VII
9/28/98	647	0.5-1.0	14.7	110.7	93	VII
9/28/98	648	1.0-1.5	17.0	106.7	90	VI
9/28/98	649	1.5-2.0	12.2	115.9	93	XI
9/28/98	650	2.0-2.5	12.1	119.5	93	V
9/28/98	651	5.0-5.5	15.8	113.9	97	VIII
9/28/98	652	5.0-5.5	14.6	109.9	94	VIII
9/28/98	653	4.5-5.0	14.5	109.2	93	VIII
9/28/98	654	4.0-4.5	17.8	110.4	91	III

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
9/28/98	655	3.0-3.5	16.8	109.6	91	III
9/28/98	656	2.5-3.0	17.5	113.2	94	III
9/28/98	657	2.0-2.5	14.8	109.8	92	VII
9/28/98	658	1.0-1.5	12.8	115.6	92	XI
9/28/98	659	1.0-1.5	17.1	110.2	91	III
9/29/98	660	4.5-5.0	15.8	107.9	92	VIII
9/29/98	661	4.5-5.0	16.0	106.5	94	VIII
9/29/98	662	4.0-4.5	14.6	108.2	92	VIII
9/29/98	663	0.5-1.0	16.2	109.3	90	III
9/29/98	664	0.5-1.0	15.8	106.2	90	VI
6/29/98	665	3.0-3.5	14.2	113.8	96	VII
6/29/98	666	3.0-3.5	15.2	109.3	92	VII
9/29/98	667	2.0-2.5	17.0	112.8	93	III
9/29/98	668	2.0-2.5	12.3	115.8	93	XI
9/30/98	669	4.5-5.0	16.1	107.7	92	VIII
9/30/98	670	4.0-4.5	15.7	108.9	93	VIII
9/30/98	671	4.5-5.0	16.0	108.6	93	VIII
9/30/98	672	3.0-3.5	15.2	109.3	93	VI
9/30/98	673	2.0-2.5	14.6	113.4	95	VII
9/30/98	674	1.0-1.5	16.5	114.2	94	III
9/30/98	675	0.5-1.0	16.3	111.8	92	III
9/30/98	676	0.5-1.0	15.9	108.7	92	VI
9/30/98	677	5.0-5.5	10.1	116.3	92	XIII
9/30/98	678	4.0-4.5	9.3	115.3	91	XIII
9/30/98	679	2.5-3.0	11.3	116.8	93	XIII
9/30/98	680	0.5-1.0	16.6	109.8	93	VI
10/1/98	681	4.0-4.5	14.5	104.8	94	II
10/1/98	682	4.0-4.5	14.9	105.3	94	II
10/1/98	683	4.0-4.5	16.1	103.3	94	I
10/1/98	684	7.0-7.5	14.8	102.8	92	II
10/1/98	685	3.0-3.5	17.2	110.9	92	III
10/1/98	686	2.0-2.5	15.1	111.2	93	VII
10/2/98	687	9.0-9.5	15.5	110.8	95	VIII
10/2/98	688	5.0-5.5	14.3	105.0	94	II
10/2/98	689	3.5-4.0	15.1	99.9	91	I
10/2/98	690	3.0-3.5	15.2	109.4	92	VII
10/2/98	691	6.0-6.5	14.8	109.8	92	VII
10/2/98	692	8.0-8.5	16.6	111.5	92	III
10/2/98	693	6.0-6.5	15.0	109.6	92	VII
10/2/98	694	4.0-4.5	14.8	108.9	92	VII
10/2/98	695	1.0-1.5	16.6	112.3	93	III
10/2/98	696	5.0-5.5	14.9	111.4	94	VII
10/2/98	697	3.0-3.5	12.3	115.8	93	XI
10/2/98	698	2.0-2.5	15.5	112.6	95	VII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
10/5/98	699	5.0-5.5	15.3	99.7	89	II
10/5/98	699A**	5.0-5.5	14.8	106.3	95	II
10/5/98	700	8.0-8.5	17.2	106.7	95	II
10/5/98	701	6.0-6.5	16.2	107.6	90	VII
10/5/98	702	5.0-5.5	14.8	109.8	92	VII
10/5/98	703	4.0-4.5	16.6	108.9	90	III
10/5/98	704	3.0-3.5	14.2	109.5	92	VII
10/5/98	705	1.0-1.5	12.2	114.1	91	XI
10/5/98	706	1.0-1.5	16.6	107.2	91	VI
10/5/98	707	0.5-1.0	14.3	109.4	93	VI
10/5/98	708	0.5-1.0	14.5	110.0	92	VII
10/5/98	709	4.0-4.5	12.2	111.4	94	VII
10/6/98	710	3.0-3.5	14.9	105.3	94	II
10/6/98	711	4.0-4.5	15.3	99.7	91	I
10/6/98	712	1.5-2.0	15.0	102.6	92	II
10/6/98	713	2.0-2.5	14.5	103.1	92	II
10/6/98	714	4.0-4.5	11.7	114.6	92	XI
10/6/98	715	2.0-2.5	14.2	109.5	92	VII
10/6/98	716	2.0-2.5	16.8	107.0	91	VI
10/6/98	717	3.0-3.5	10.0	120.9	94	V
10/7/98	718	4.0-4.5	11.3	118.6	94	XIII
10/7/98	719	3.0-3.5	11.5	114.8	91	XIII
10/7/98	720	2.5-3.0	11.0	118.0	94	XIII
10/7/98	721	2.0-2.5	11.5	117.8	93	XIII
10/7/98	722	3.0-3.5	15.8	109.1	90	III
10/7/98	723	3.0-3.5	15.2	109.4	92	VII
10/7/98	724	3.0-3.5	15.5	112.6	95	VII
10/7/98	725	2.5-3.0	12.4	113.9	91	XI
10/7/98	726	1.0-1.5	17.2	108.4	92	VI
10/7/98	727	2.0-2.5	13.5	111.0	93	VII
10/8/98	728	2.0-2.5	14.1	105.2	94	II
10/8/98	729	2.5-3.0	13.5	110.1	91	IV
10/8/98	730	2.0-2.5	15.0	102.6	92	II
10/8/98	731	2.0-2.5	14.9	104.4	93	II
10/8/98	732	1.5-2.0	16.8	107.9	91	VII
10/8/98	733	0.5-1.0	15.1	111.2	93	VII
10/8/98	734	1.0-1.5	12.2	112.3	94	VII
10/8/98	735	1.0-1.5	14.2	112.1	94	VII
10/8/98	736	1.0-1.5	13.8	109.8	92	VII
10/12/98	737	0.5-1.0	14.8	111.5	94	VII
10/12/98	738	0.5-1.0	16.1	110.2	91	III
10/12/98	739	0.5-1.0	15.7	112.3	93	III
10/12/98	740	2.0-2.5	12.3	113.9	94	IV
10/12/98	741	2.0-2.5	15.2	109.3	93	VIII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
10/12/98	742	0.5-1.0	12.5	115.3	92	XI
10/13/98	743	2.0-2.5	14.8	106.3	95	II
10/13/98	744	3.0-3.5	13.3	112.1	93	IV
10/13/98	745	2.0-2.5	15.1	104.3	93	II
10/13/98	746	2.0-2.5	17.3	98.0	83	VI
10/13/98	746A**	2.0-2.5	16.9	107.8	91	VI
10/13/98	747	1.5-2.0	16.1	109.4	90	III
10/13/98	748	1.5-2.0	15.7	110.6	91	III
10/13/98	749	1.5-2.0	14.6	111.7	94	VII
10/13/98	750	1.5-2.0	13.9	110.6	93	VII
10/14/98	751	8.0-8.5	15.8	111.3	95	VIII
10/14/98	752	8.0-8.5	15.5	108.2	93	VIII
10/14/98	753	7.0-7.5	17.2	107.5	91	VI
10/14/98	754	6.0-6.5	13.4	111.1	93	VII
10/14/98	755	4.0-4.5	14.1	110.4	93	VII
10/14/98	756	3.0-3.5	12.7	113.6	95	VII
10/15/98	757	3.0-3.5	16.5	107.3	91	VI
10/15/98	758	2.0-2.5	12.2	120.3	96	XI
10/15/98	759	4.0-4.5	15.3	110.1	94	VIII
10/15/98	760	2.0-2.5	13.1	111.4	94	VII
10/15/98	761	1.0-1.5	11.5	116.6	93	XIII
10/15/98	762	1.0-1.5	14.7	109.9	92	VIII
10/15/98	763	8.0-8.5	16.1	108.5	93	VIII
10/15/98	764	6.0-6.5	11.2	117.8	92	V
10/15/98	765	4.0-4.5	13.7	109.9	92	VII
10/16/98	766	6.0-6.5	15.2	108.5	93	VIII
10/16/98	767	6.0-6.5	15.8	108.8	93	VIII
10/16/98	768	5.0-5.5	16.1	105.9	91	VIII
10/16/98	769	4.0-4.5	13.4	110.2	93	VII
10/16/98	770	3.0-3.5	14.2	111.2	93	VII
10/16/98	771	2.0-2.5	16.3	110.0	91	III
10/16/98	772	1.0-1.5	15.1	108.6	91	VII
10/19/98	773	2.0-2.5	15.1	110.3	93	VII
10/19/98	774	0.5-1.0	16.8	109.6	91	III
10/19/98	775	11.5-12.0	13.9	114.1	94	IV
10/19/98	776	7.5-8.0	13.5	112.8	93	IV
10/19/98	777	10.0-10.5	10.0	113.6	91	XI
10/19/98	778	6.0-6.5	14.7	111.6	92	III
10/19/98	779	8.5-9.0	14.6	109.1	92	VII
10/19/98	780	7.0-7.5	13.8	109.8	92	VII
10/20/98	781	9.0-9.5	14.1	114.8	95	IV
10/20/98	782	8.0-8.5	13.3	111.3	92	IV
10/20/98	783	5.0-5.5	13.8	109.8	91	IV
10/20/98	784	3.0-3.5	15.0	104.3	93	II

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
10/21/98	785	6.0-6.5	13.8	109.8	92	VII
10/21/98	786	5.0-5.5	14.5	109.2	92	VII
10/21/98	787	5.0-5.5	20.4	91.3	91	XIV
10/21/98	788	4.0-4.5	22.2	91.6	92	XIV
10/21/98	789	7.5-8.0	13.2	110.4	88	XI
10/21/98	789A**	7.5-8.0	12.1	115.9	93	XI
10/21/98	790	7.5-8.0	14.2	110.3	93	VII
10/21/98	791	7.5-8.0	15.1	108.6	91	VII
10/21/98	792	5.5-6.0	19.9	94.2	94	XIV
10/21/98	793	5.0-5.5	19.2	91.4	91	XIV
10/21/98	794	4.5-5.0	21.4	92.2	92	XIV
10/21/98	795	4.0-4.5	18.8	90.0	90	XIV
10/21/98	796	5.0-5.5	20.1	90.7	91	XIV
10/21/98	797	3.5-4.0	20.7	91.2	91	XIV
10/21/98	798	4.0-4.5	19.9	94.2	94	XIV
10/21/98	799	4.0-4.5	19.7	92.7	93	XIV
10/21/98	800	3.5-4.0	20.0	90.3	90	XIV
10/21/98	801	3.5-4.0	17.7	89.2	89	XIV
10/21/98	801A**	3.5-4.0	19.5	92.8	93	XIV
10/21/98	802	3.0-3.5	10.6	117.5	93	XIII
10/22/98	803	3.0-3.5	19.1	105.3	94	XIV
10/22/98	804	4.0-4.5	20.4	91.1	91	XV
10/22/98	805	1.0-1.5	11.4	116.7	93	XIII
10/22/98	806	1.0-1.5	11.2	115.1	91	XIII
10/22/98	807	2.0-2.5	9.3	115.3	91	XIII
10/22/98	808	2.0-2.5	9.7	115.8	92	XIII
10/22/98	809	0.5-1.0	10.7	113.8	91	XVI
10/22/98	810	1.0-1.5	11.3	115.0	92	XVI
10/22/98	811	2.0-2.5	20.3	91.4	91	XIV
10/22/98	812	1.5-2.0	19.9	93.4	93	XIV
10/22/98	813	1.5-2.0	18.7	105.3	94	XV
10/22/98	814	1.0-1.5	19.0	101.7	91	XV
10/23/98	815	1.0-1.5	19.8	95.9	93	XVII
10/23/98	816	0.5-1.0	10.8	112.8	94	XVIII
10/23/98	817	1.0-1.5	10.3	111.5	93	XVIII
10/23/98	818	1.5-2.0	9.5	116.9	93	XIII
10/23/98	819	0.5-1.0	12.3	111.4	93	XVIII
10/23/98	820	2.0-2.5	11.2	110.6	92	XVIII
10/23/98	821	1.5-2.0	19.6	104.5	93	XV
10/24/98	822	2.0-2.5	8.6	113.2	91	XVI
10/24/98	823	1.0-1.5	10.4	113.3	91	XVI
10/24/98	824	1.0-1.5	12.2	114.6	92	XVI
10/26/98	825	2.5-3.0	20.8	95.6	92	XVII
10/26/98	826	2.5-3.0	19.7	92.7	90	XVII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
10/26/98	827	7.0-7.5	18.1	105.8	95	XV
10/26/98	828	6.5-7.0	9.2	114.5	91	XIII
10/26/98	829	7.0-7.5	12.3	113.9	91	XI
10/26/98	830	6.0-6.5	19.6	96.2	93	XVII
10/26/98	831	5.0-5.5	20.1	95.8	93	XVII
10/26/98	832	5.5-6.0	20.3	93.9	94	XIV
10/26/98	833	4.5-5.0	16.3	104.9	91	XIX
10/26/98	834	4.5-5.0	17.1	106.7	93	XIX
10/26/98	835	3.5-4.0	17.7	91.7	92	XIV
10/26/98	836	4.5-5.0	19.9	95.9	93	XVII
10/27/98	837	4.0-4.5	9.7	115.8	93	XVI
10/27/98	838	4.0-4.5	18.3	102.3	91	XV
10/27/98	839	4.5-5.0	9.7	116.7	93	XIII
10/27/98	840	2.0-2.5	16.3	104.9	91	XIX
10/27/98	841	3.5-4.0	19.4	96.3	94	XVII
10/27/98	842	3.0-3.5	16.6	106.3	92	XIX
10/27/98	843	3.5-4.0	17.2	98.1	85	XIX
10/27/98	843A**	3.5-4.0	17.5	106.4	93	XIX
10/28/98	844	2.0-2.5	20.5	94.9	92	XVII
10/28/98	845	3.0-3.5	16.8	107.0	93	XIX
10/28/98	846	2.0-2.5	10.7	113.8	95	XVIII
10/28/98	847	2.5-3.0	19.4	96.3	94	XVII
10/28/98	848	1.0-1.5	11.1	115.2	92	XVI
10/28/98	849	1.5-2.0	14.3	107.6	94	XIX
11/2/98	850	2.0-2.5	19.6	96.8	94	XVII
11/2/98	851	2.0-2.5	14.8	105.4	92	XIX
11/2/98	852	2.0-2.5	20.1	95.8	93	XVII
11/2/98	853	2.0-2.5	11.2	110.6	92	XVII
11/3/98	854	1.0-1.5	17.8	97.8	95	XVII
11/3/98	855	1.0-1.5	11.7	107.9	86	XVIII
11/3/98	855A**	1.0-1.5	11.9	117.0	97	XVIII
11/3/98	856	2.0-2.5	19.0	98.3	96	XVII
11/4/98	857	1.0-1.5	21.0	98.6	96	XVII
11/4/98	858	0.0-0.5	12.6	105.3	92	XVIII
11/4/98	859	0.0-0.5	19.9	96.7	94	XVII
11/4/98	860	0.0-0.5	18.7	94.2	92	XVII
11/4/98	861	0.0-0.5	16.2	97.8	95	XVII
11/4/98	862	0.0-0.5	17.3	105.7	92	XIX
11/5/98	863	0.0-0.5	15.0	106.5	93	XIX
11/5/98	864	0.0-0.5	16.3	109.2	95	XIX
11/5/98	865	0.0-0.5	14.6	104.9	91	XIX
11/5/98	866	0.0-0.5	15.4	105.0	91	XIX
11/5/98	867	0.0-0.5	13.8	108.9	95	XIX
11/5/98	868	0.0-0.5	14.2	105.4	90	XIX

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
11/5/98	869	0.0-0.5	16.6	104.1	92	XIX
11/6/98	870	2.0-2.5	12.9	108.0	94	XIX
11/6/98	871	2.0-2.5	15.6	108.9	95	XIX
11/6/98	872	4.0-4.5	15.3	106.6	93	XIX
11/6/98	873	4.0-4.5	16.2	105.8	92	XIX
11/6/98	874	6.0-6.5	15.8	107.9	94	XIX
11/6/98	875	6.0-6.5	17.0	105.9	92	XIX
11/6/98	876	4.0-4.5	15.6	103.9	90	XIX
11/6/98	877	2.0-2.5	15.3	104.7	91	XIX
11/6/98	878	0.0-0.5	20.6	96.3	91	XVII
11/6/98	879	0.0-0.5	15.6	104.6	91	XIX
11/6/98	880	0.0-0.5	16.1	107.3	94	XIX
11/6/98	881	0.0-0.5	16.5	113.6	94	III
11/6/98	882	0.0-0.5	17.3	111.0	92	III
11/6/98	883	0.0-0.5	17.0	107.9	90	II
11/6/98	884	0.0-0.5	16.9	108.6	91	III
11/9/98	885	0.0-0.5	15.2	112.0	96	III
11/9/98	886	0.0-0.5	12.6	103.7	93	II
11/17/98	887	0.0-0.5	13.4	104.9	94	II
11/17/98	888	0.0-0.5	14.6	108.2	91	VII
11/17/98	889	0.0-0.5	13.4	107.2	90	VII
11/17/98	890	0.0-0.5	12.9	102.9	92	II
11/19/98	891	0.0-0.5	7.6	125.2	96	XX
11/19/98	892	0.0-0.5	8.2	128.0	98	XX
11/19/98	893	0.0-0.5	5.5	128.9	98	XX
11/19/98	894	0.0-0.5	6.0	126.9	97	XX
11/19/98	895	0.0-0.5	7.9	123.8	95	XX
11/19/98	896	0.0-0.5	7.6	124.6	96	XX
11/19/98	897	0.0-0.5	10.4	123.8	95	XX
11/19/98	898	0.0-0.5	9.3	127.2	97	XX
11/20/98	899	2.0-2.5	11.6	110.7	90	XVIII
11/20/98	900	4.0-4.5	10.5	111.2	91	XVIII
11/20/98	901	5.0-5.5	10.3	115.6	95	XVIII
11/20/98	902	2.0-2.5	11.9	114.6	94	XVIII
11/20/98	903	2.0-2.5	9.5	110.3	90	XVIII
11/20/98	904	4.0-4.5	9.9	112.3	92	XVIII
11/23/98	905	2.0-2.5	10.0	109.5	90	XXII
11/23/98	906	0.0-0.5	9.6	112.6	93	XXII
11/23/98	907	0.0-0.5	9.3	109.8	90	XXII
11/23/98	908	4.0-4.5	9.0	111.5	92	XXII
11/23/98	909	2.0-2.5	11.6	113.6	94	XXII
11/24/98	910	0.0-0.5	10.8	109.4	90	XXII
11/24/98	911	2.0-2.5	11.0	110.9	92	XXII
11/24/98	912	2.0-2.5	10.3	110.0	91	XXII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
11/24/98	913	4.0-4.5	9.8	115.3	97	XXII
11/25/98	914	4.0-4.5	9.5	115.3	96	XXII
11/25/98	915	2.0-2.5	10.0	109.5	90	XXII
11/25/98	916	2.0-2.5	10.2	110.3	91	XXII
11/30/98	917	2.0-2.5	15.3	108.9	90	III
11/30/98	918	1.0-1.5	14.6	102.7	90	II
11/30/98	919	2.0-2.5	15.7	108.7	90	III
11/30/98	920	0.0-0.5	12.6	110.6	92	III
11/30/98	921	0.0-0.5	13.8	113.5	95	III
12/1/98	922	2.0-2.5	17.3	109.3	91	III
12/1/98	923	0.0-0.5	13.0	106.4	94	II
12/1/98	924	0.0-0.5	11.9	104.3	92	II
12/1/98	925	0.0-0.5	15.9	108.6	90	III
12/1/98	926	0.0-0.5	15.2	110.3	92	III
12/1/98	927	0.0-0.5	15.0	105.2	93	III
12/2/98	928	3.0-3.5	11.5	102.8	90	XXI
12/2/98	929	1.0-1.5	12.0	105.2	93	XXI
12/4/98	930	4.0-4.5	15.0	105.5	90	XIX
12/4/98	931	4.0-4.5	13.9	105.8	90	XIX
12/4/98	932	2.0-2.5	14.7	106.3	91	XIX
12/8/98	933	3.0-3.5	13.5	109.2	94	XIX
12/9/98	934	0.0-0.5	11.5	103.5	91	XXI
12/15/98	935	2.0-2.5	12.3	104.7	92	XXI
12/15/98	936	0.0-0.5	12.6	105.8	93	XXI
12/15/98	937	0.0-0.5	11.7	102.5	90	XXI
12/15/98	938	0.0-0.5	14.3	108.2	93	XIX
12/15/98	939	4.0-4.5	15.0	105.3	90	XIX
12/17/98	940	0.0-0.5	12.9	106.2	91	XIX
12/17/98	941	2.0-2.5	15.3	108.5	93	XIX
12/17/98	942	2.0-2.5	14.7	106.1	91	XIX
12/17/98	943	1.0-1.5	15.0	105.3	90	XIX
12/18/98	944	3.0-3.5	11.3	106.3	91	XXI
12/21/98	945	3.0-3.5	11.0	105.1	90	XXI
12/21/98	946	1.0-1.5	10.9	106.0	91	XXI
12/21/98	947	1.0-1.5	10.7	105.7	90	XXI
12/23/98	948	2.0-2.5	11.6	112.7	97	XXI
12/23/98	949	2.0-2.5	12.2	106.6	91	XXI
12/23/98	950	2.0-2.5	10.0	108.3	93	XXI
12/23/98	951	0.0-0.5	11.5	109.4	94	XXI
12/23/98	952	0.0-0.5	10.0	109.5	94	XXI
1/6/99	953	2.0-2.5	12.0	106.0	91	XXI
1/6/99	954	4.0-4.5	10.3	105.3	90	XXI
1/8/99	955	0.0-0.5	11.5	105.5	90	XXI
1/15/99	956	2.0-2.5	10.6	110.3	95	XXI

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
1/15/99	957	0.0-0.5	10.8	112.3	97	XXI
1/15/99	958	2.0-2.5	11.2	110.5	95	XXI
1/15/99	959	0.0-0.5	11.8	106.7	91	XXI
2/4/99	960	2.0-2.5	15.8	106.2	91	I
2/4/99	961	2.0-2.5	17.0	106.8	91	I
2/4/99	962	0.0-0.5	14.6	109.1	93	I
2/4/99	963	0.0-0.5	13.4	105.8	90	I
2/6/99	964	0.0-0.5	4.9	123.4	96	XX
2/6/99	965	0.0-0.5	7.6	127.6	98	XX
2/6/99	966	0.0-0.5	7.6	127.6	98	XX
2/6/99	967	0.0-0.5	5.0	125.0	96	XX
2/6/99	968	0.0-0.5	9.5	122.8	95	XX
2/8/99	969	4.0-4.5	9.0	115.3	90	XXV
2/8/99	970	4.0-4.5	10.7	116.3	91	XXV
2/8/99	971	2.0-2.5	10.1	116.5	91	XXV
2/8/99	972	0.0-0.5	10.8	118.3	95	XXV
2/8/99	973	4.0-4.5	10.1	119.7	96	XXV
2/8/99	974	0.0-0.5	10.0	117.0	94	XXV
2/8/99	975	2.0-2.5	11.3	114.9	90	XXV
2/8/99	976	2.0-2.5	10.5	116.5	91	XXV
2/8/99	977	2.0-2.5	11.2	118.4	93	XXV
2/8/99	978	4.0-4.5	10.6	120.4	96	XXV
2/8/99	979	0.0-0.5	10.5	115.3	90	XXV
2/8/99	980	0.0-0.5	10.4	119.2	91	XXV
2/8/99	981	0.0-0.5	10.8	116.6	91	XXV
2/8/99	982	0.0-0.5	11.6	119.0	94	XXV
2/8/99	983	2.0-2.5	10.0	117.2	92	XXV
2/9/99	984	2.0-2.5	10.3	116.2	91	XXV
2/9/99	985	2.0-2.5	10.3	120.1	95	XXV
2/9/99	986	0.0-0.5	11.0	118.7	93	XXV
2/9/99	987	0.0-0.5	10.8	117.3	92	XXV
2/9/99	988	0.0-0.5	10.0	120.1	95	XXV
2/9/99	989	0.0-0.5	10.0	119.3	94	XXV
2/9/99	990	0.0-0.5	10.2	115.2	90	XXV
2/10/99	991	3.0-3.5	9.0	110.1	90	XXIII
2/10/99	992	2.0-2.5	10.5	112.5	92	XXIII
2/10/99	993	0.0-0.5	10.0	112.3	92	XXIII
2/10/99	994	2.0-2.5	10.8	111.3	91	XXIII
2/11/99	995	2.0-2.5	9.6	110.6	90	XXIII
2/12/99	996	0.0-0.5	9.1	113.6	93	XXIII
2/12/99	997	2.0-2.5	9.0	109.5	92	XXII
2/12/99	998	0.0-0.5	9.8	110.8	93	XXII
2/15/99	999	3.0-3.5	10.3	110.3	93	XXII
2/16/99	1000	3.0-3.5	9.7	109.9	92	XXII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
2/16/99	1001	2.0-2.5	11.4	113.8	96	XXII
2/17/99	1002	0.0-0.5	9.0	112.6	95	XXII
2/18/99	1003	2.0-2.5	9.8	113.4	93	XXIII
2/19/99	1004	0.0-0.5	9.3	115.6	95	XXIII
2/19/99	1005	0.0-0.5	10.0	111.0	91	XXIII
2/19/99	1006	2.0-2.5	10.6	111.8	91	XXIII
2/19/99	1007	0.0-0.5	10.8	110.4	90	XXIII
2/22/99	1008	2.0-2.5	10.0	111.5	91	XXIII
2/23/99	1009	0.0-0.5	11.3	110.0	90	XXIII
2/23/99	1010	0.0-0.5	10.8	110.5	90	XXIII
2/23/99	1011	0.0-0.5	10.0	110.6	90	XXIII
2/24/99	1012	0.0-0.5	10.0	112.3	92	XXIII
2/24/99	1013	2.0-2.5	9.5	110.9	91	XXIII
2/24/99	1014	2.0-2.5	9.8	110.3	90	XXIII
2/24/99	1015	0.0-0.5	10.0	111.5	91	XXIII
2/26/99	1016	2.0-2.5	12.0	111.3	91	XXVI
3/1/99	1017	2.0-2.5	11.5	110.0	90	XXVI
3/2/99	1018	1.0-1.5	11.0	114.6	94	XXVI
3/3/99	1019	3.0-3.5	11.9	112.0	90	XXI
3/11/99	1020	2.0-2.5	12.3	114.6	92	XXI
3/5/99	1021	0.0-0.5	17.0	113.7	94	III
3/5/99	1022	0.0-0.5	13.9	111.5	92	III
3/5/99	1023	0.0-0.5	18.8	110.3	91	III
3/5/99	1024	0.0-0.5	12.2	117.6	92	V
3/8/99	1025	0.0-0.5	16.4	109.1	92	VI
3/8/99	1026	0.0-0.5	13.1	114.9	95	II
3/8/99	1027	0.0-0.5	14.8	114.9	95	III
3/9/99	1028	0.0-0.5	16.2	114.3	94	III
3/10/99	1029	0.0-0.5	16.5	112.4	93	III
3/10/99	1030	0.0-0.5	18.5	110.3	91	III
3/10/99	1031	0.0-0.5	16.4	109.1	92	VI
3/10/99	1032	0.0-0.5	16.5	112.4	93	III
3/10/99	1033	0.0-0.5	17.0	111.1	92	III
3/10/99	1034	0.0-0.5	9.6	118.6	93	V
3/10/99	1035	0.0-0.5	15.8	113.9	94	III
3/30/99	1036	0.0-0.5	7.0	118.0	95	XXVII
3/30/99	1037	0.0-0.5	6.0	119.0	95	XXVII
3/30/99	1038	0.0-0.5	6.1	122.5	98	XXVII
3/30/99	1039	0.0-0.5	7.6	120.1	96	XXVII
3/30/99	1040	0.0-0.5	10.4	119.0	95	XXVII
3/30/99	1041	0.0-0.5	6.5	121.3	97	XXVII
4/1/99	1042	0.0-0.5	6.5	119.3	95	XXVII
4/1/99	1043	0.0-0.5	7.6	119.9	96	XXVII
4/1/99	1044	0.0-0.5	5.5	121.2	97	XXVII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
4/2/99	1045	0.0-0.5	10.0	115.3	90	XXV
4/3/99	1046	2.0-2.5	10.5	116.1	91	XXV
4/3/99	1047	0.0-0.5	12.3	112.6	90	XXI
4/3/99	1048	0.0-0.5	11.3	116.7	91	XXV
4/3/99	1049	0.0-0.5	11.8	117.3	92	XXV
4/3/99	1050	2.0-2.5	10.5	115.6	90	XXV
4/3/99	1051	0.0-0.5	9.8	117.4	92	XXV
4/3/99	1052	0.0-0.5	10.8	114.3	92	XXI
4/15/99	1053	0.0-0.5	12.0	112.3	90	XXI
4/15/99	1054	2.0-2.5	10.5	115.6	93	XXI
4/15/99	1055	0.0-0.5	10.3	115.5	90	XXIII
4/16/99	1056	0.0-0.5	9.5	116.3	91	XXIII
4/22/99	1057	0.0-0.5	9.8	118.7	93	XXV
5/3/99	1058	0.0-0.5	9.6	118.5	93	XXV
5/3/99	1059	0.0-0.5	10.2	115.8	90	XXV
5/3/99	1060	0.0-0.5	10.3	115.1	90	XXV
5/3/99	1061	2.0-2.5	10.0	116.7	91	XXV
5/3/99	1062	0.0-0.5	11.0	117.3	92	XXV
5/3/99	1063	0.0-0.5	10.5	118.4	93	XXV
5/5/99	1064	0.0-0.5	10.8	119.5	94	XXV
5/5/99	1065	0.0-0.5	10.2	120.0	95	XXV
5/5/99	1066	0.0-0.5	10.6	118.7	93	XXV
5/5/99	1067	2.0-2.5	10.5	115.3	90	XXV
5/7/99	1068	2.0-2.5	15.3	113.0	90	XXVIII
5/7/99	1069	0.0-0.5	15.0	115.6	92	XXVIII
5/7/99	1070	0.0-0.5	14.6	114.3	91	XXVIII
5/7/99	1071	2.0-2.5	13.8	115.1	92	XXVIII
5/7/99	1072	2.0-2.5	15.0	114.6	91	XXVIII
5/10/99	1073	0.0-0.5	14.9	113.5	90	XXVIII
5/10/99	1074	0.0-0.5	14.2	113.8	90	XXVIII
5/10/99	1075	2.0-2.5	15.3	117.6	94	XXVIII
5/10/99	1076	0.0-0.5	15.0	115.1	92	XXVIII
5/10/99	1077	4.0-4.5	10.0	115.0	90	XXV
5/10/99	1078	4.0-4.5	10.5	117.6	92	XXV
5/10/99	1079	4.0-4.5	11.0	115.9	91	XXV
5/11/99	1080	0.0-0.5	11.8	110.9	92	III
5/11/99	1081	0.0-0.5	10.4	111.4	94	VII
5/11/99	1082	0.0-0.5	11.6	112.9	93	IV
5/11/99	1083	0.0-0.5	6.0	113.2	94	IV
5/11/99	1084	0.0-0.5	14.5	106.3	95	II
5/11/99	1085	0.0-0.5	12.2	106.9	96	II
5/11/99	1086	0.0-0.5	11.5	123.6	97	V
5/11/99	1087	0.0-0.5	12.2	120.1	94	V
5/11/99	1088	0.0-0.5	9.3	124.0	97	V

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
5/11/99	1089	0.0-0.5	12.6	116.4	91	V
5/11/99	1090	0.0-0.5	11.0	119.6	93	V
5/20/99	1091	0.0-0.5	7.0	126.0	98	XXX
5/20/99	1092	0.0-0.5	8.2	123.9	96	XXX
5/20/99	1093	0.0-0.5	6.5	125.9	98	XXX
5/20/99	1094	0.0-0.5	7.6	125.2	97	XXX
5/20/99	1095	0.0-0.5	6.5	123.5	96	XXX
5/20/99	1096	0.0-0.5	6.0	123.0	95	XXX
5/24/99	1097	4.0-4.5	13.5	112.9	90	XXVIII
5/24/99	1098	8.0-8.5	13.3	113.0	90	XXVIII
5/25/99	1099	6.0-6.5	14.5	115.6	92	XXVIII
5/25/99	1100	2.0-2.5	15.0	114.3	91	XXVIII
5/27/99	1101	4.0-4.5	16.0	115.0	92	XXVIII
5/27/99	1102	2.0-2.5	12.5	115.5	92	XXVIII
5/28/99	1103	4.0-4.5	14.3	115.2	92	XXVIII
6/1/99	1104	2.0-2.5	13.5	114.6	91	XXVIII
6/8/99	1105	4.0-4.5	13.0	113.9	91	XXVIII
6/8/99	1106	2.0-2.5	13.0	113.0	90	XXVIII
6/8/99	1107	2.0-2.5	13.0	113.2	90	XXVIII
6/8/99	1108	2.0-2.5	13.5	116.5	94	XXVIII
6/8/99	1109	2.0-2.5	9.5	118.3	93	XXV
6/8/99	1110	2.0-2.5	10.0	116.1	91	XXV
6/8/99	1111	2.0-2.5	11.9	111.1	90	XXIV
6/10/99	1112	2.0-2.5	10.8	111.6	91	XXIV
6/10/99	1113	2.0-2.5	11.7	110.9	90	XXIV
6/14/99	1114	3.0-3.5	10.3	113.7	91	XXV
6/14/99	1115	1.0-1.5	11.0	110.1	91	XXIV
6/15/99	1116	1.5-2.0	12.2	114.1	93	XXVIII
6/15/99	1117	2.0-2.5	12.7	114.4	93	XXVIII
7/9/99	1118	0.5-1.0	14.2	109.5	93	XXX
7/9/99	1119	0.5-1.0	14.6	104.7	93	XXIX
7/9/99	1120	0.5-1.0	13.8	102.8	91	XXIX
8/2/99	1121	9.0-9.5	12.2	106.6	95	II
8/2/99	1122	7.0-7.5	7.7	116.9	93	XII
8/2/99	1123	5.0-5.5	8.3	116.3	92	XII
8/2/99	1124	6.0-6.5	14.3	104.9	94	II
8/2/99	1125	6.0-6.5	13.9	103.4	92	II
8/2/99	1126	5.0-5.5	5.8	110.6	88	XII
8/9/99	1126A**	5.0-5.5	9.2	118.6	94	XII
8/2/99	1127	4.0-4.5	13.8	109.8	93	XXX
8/2/99	1128	3.0-3.5	17.0	111.1	90	XXVIII
8/3/99	1129	2.0-2.5	13.6	108.3	92	XXX
8/3/99	1130	3.0-3.5	14.2	109.4	93	XXX
8/3/99	1131	1.0-1.5	19.6	107.0	91	XXX

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
8/4/99	1132	0.0-0.5	13.4	108.5	93	XXX
8/4/99	1133	0.0-0.5	12.9	108.9	91	XXX
8/9/99	1134	6.0-6.5	13.2	111.3	93	IV
8/9/99	1135	7.0-7.5	12.7	111.8	92	IV
8/9/99	1136	8.0-8.5	13.3	112.1	93	IV
8/9/99	1137	5.0-5.5	11.2	116.9	91	V
8/9/99	1138	4.5-5.0	10.7	117.4	92	V
8/9/99	1139	4.0-4.5	11.1	117.0	91	V
8/10/99	1140	5.0-5.5	13.9	111.5	92	IV
8/10/99	1141	2.0-2.5	11.3	113.2	94	IV
8/10/99	1142	4.0-4.5	7.0	112.1	88	V
8/10/99	1142A**	4.0-4.5	11.8	116.3	91	V
8/10/99	1143	4.0-4.5	14.2	110.3	93	VII
8/11/99	1144	3.0-3.5	13.4	119.0	93	V
8/11/99	1145	2.0-2.5	14.8	104.5	93	II
8/11/99	1146	4.0-4.5	15.0	110.4	93	VII
8/11/99	1147	1.0-1.5	14.2	109.5	92	VII
8/11/99	1148	3.0-3.5	14.5	109.2	92	VII
8/11/99	1149	2.0-2.5	16.3	107.5	89	III
8/11/99	1149A**	2.0-2.5	17.2	110.9	92	III
8/12/99	1150	3.0-3.5	15.8	109.7	91	III
8/12/99	1151	4.5-5.0	16.5	111.6	92	III
8/12/99	1152	4.0-4.5	14.8	109.8	92	VII
8/12/99	1153	3.0-3.5	17.1	112.7	93	III
8/12/99	1154	1.0-1.5	14.6	116.1	96	III
8/13/99	1155	2.0-2.5	17.0	110.3	91	III
8/13/99	1156	3.0-3.5	14.9	104.7	93	II
8/13/99	1157	3.5-4.0	17.2	109.2	90	III
8/13/99	1158	2.0-2.5	16.6	108.1	92	VI
8/16/99	1159	1.5-2.0	13.9	115.9	96	III
8/16/99	1160	2.0-2.5	14.8	109.8	92	VII
8/16/99	1161	3.0-3.5	11.3	116.8	91	V
8/16/99	1162	2.5-3.0	16.2	109.1	90	III
8/16/99	1163	3.5-4.0	14.8	111.5	94	VIII
8/16/99	1164	2.0-2.5	13.2	110.4	94	XXX
8/16/99	1165	1.5-2.0	12.9	108.9	93	XXX
8/16/99	1166	1.0-1.5	13.7	108.2	92	XXX
8/17/99	1167	2.0-2.5	12.0	109.1	92	VII
8/17/99	1168	1.5-2.0	13.2	112.2	93	III
8/17/99	1169	1.0-1.5	14.6	110.8	93	VII
8/17/99	1170	1.0-1.5	14.2	110.3	93	VII
8/17/99	1171	1.0-1.5	13.5	110.1	94	XXX
8/17/99	1172	0.5-1.0	14.2	109.5	93	XXX
8/17/99	1173	6.0-6.5	15.1	104.2	93	II

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
8/17/99	1174	5.0-5.5	14.2	103.3	92	II
8/17/99	1175	4.0-4.5	13.1	111.4	92	IV
8/18/99	1176	8.0-8.5	13.2	105.1	94	II
8/18/99	1177	5.0-5.5	12.7	102.9	92	II
8/18/99	1178	4.0-4.5	12.2	114.1	91	XI
8/18/99	1179	5.0-5.5	13.6	111.8	92	IV
8/18/99	1180	4.5-5.0	14.8	111.5	94	VII
8/18/99	1181	4.0-4.5	12.5	116.4	93	XI
8/19/99	1182	6.0-6.5	13.2	108.6	92	XXX
8/19/99	1183	5.0-5.5	11.4	107.7	92	XXX
8/19/99	1184	5.0-5.5	13.8	110.7	94	XXX
8/19/99	1185	3.5-4.0	14.1	111.3	92	IV
8/19/99	1186	2.0-2.5	13.2	113.0	93	IV
8/20/99	1187	2.0-2.5	16.2	110.2	93	VI
8/20/99	1188	1.5-2.0	15.8	109.7	91	III
8/20/99	1189	4.0-4.5	13.8	110.7	92	IV
8/20/99	1190	3.0-3.5	14.1	110.4	93	VII
8/20/99	1191	7.0-7.5	14.8	104.5	93	II
8/20/99	1192	7.0-7.5	15.0	106.9	95	II
8/20/99	1193	3.0-3.5	16.8	109.6	93	VI
8/20/99	1194	4.0-4.5	14.7	109.8	93	VI
8/20/99	1195	2.0-2.5	11.7	107.4	89	III
8/20/99	1195A**	2.0-2.5	13.2	110.4	91	III
8/23/99	1196	5.0-5.5	14.2	111.2	93	VII
8/23/99	1197	6.0-6.5	15.0	104.3	93	II
8/23/99	1198	8.0-8.5	12.6	110.4	91	IV
8/23/99	1199	5.0-5.5	14.6	109.9	91	III
8/23/99	1200	2.5-3.0	16.2	109.3	93	VI
8/23/99	1201	4.0-4.5	17.1	109.3	90	III
8/23/99	1202	7.0-7.5	15.8	103.6	93	II
8/23/99	1203	8.0-8.5	14.9	101.8	91	II
8/23/99	1204	7.0-7.5	15.1	102.5	92	II
8/24/99	1205	3.0-3.5	13.2	111.3	94	VII
8/24/99	1206	2.0-2.5	14.8	110.6	93	VII
8/24/99	1207	2.0-2.5	13.2	110.4	94	XXX
8/24/99	1208	8.0-8.5	14.1	105.2	94	II
8/24/99	1209	10.0-10.5	13.7	102.9	92	II
8/24/99	1210	7.0-7.5	12.5	112.0	93	IV
8/24/99	1211	10.0-10.5	12.8	111.7	92	IV
8/25/99	1212	5.0-5.5	12.2	111.4	87	V
8/25/99	1212A**	5.0-5.5	11.7	118.2	92	V
8/25/99	1213	1.0-1.5	14.8	111.5	92	III
8/25/99	1214	2.5-3.0	14.2	112.1	93	III
8/25/99	1215	3.0-3.5	16.3	111.8	92	III

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
8/25/99	1216	3.0-3.5	15.1	108.6	91	VII
8/25/99	1217	2.5-3.0	12.8	109.9	92	VII
8/25/99	1218	2.5-3.0	12.4	114.8	2	XI
8/25/99	1219	6.0-6.5	13.9	109.7	92	VII
8/25/99	1220	4.0-4.5	14.3	112.9	95	VII
8/25/99	1221	4.5-5.0	9.1	119.2	95	XII
8/26/99	1222	11.0-11.5	13.2	109.5	93	XXX
8/26/99	1223	8.5-9.0	12.8	106.4	91	XXX
8/26/99	1224	7.5-8.0	13.4	112.9	93	IV
8/26/99	1225	6.5-7.0	14.1	108.6	92	XXX
8/26/99	1226	7.0-7.5	13.8	110.7	93	VII
8/27/99	1227	4.0-4.5	13.2	110.4	94	XXX
8/27/99	1228	4.0-4.5	13.1	113.2	96	XXX
8/27/99	1229	4.5-5.0	13.2	109.3	93	XXX
8/27/99	1230	5.0-5.5	12.7	112.6	94	VII
8/27/99	1231	2.0-2.5	14.1	110.9	93	VII
8/30/99	1232	8.0-8.5	13.4	108.5	92	XXX
8/30/99	1233	7.0-7.5	11.8	107.3	91	XXX
8/30/99	1234	5.5-6.0	11.3	115.8	90	V
8/30/99	1235	5.0-5.5	14.1	111.3	94	VII
8/30/99	1236	3.5-4.0	8.8	117.6	93	XII
8/30/99	1237	3.0-3.5	11.8	112.7	93	IV
8/30/99	1238	2.0-2.5	6.3	112.9	89	XII
8/30/99	1238A**	2.0-2.5	8.2	118.3	94	XII
8/30/99	1239	4.0-4.5	14.6	109.9	93	VI
8/30/99	1240	2.5-3.0	9.3	116.2	92	XII
8/30/99	1241	1.5-2.0	13.8	110.7	93	VII
8/31/99	1242	5.0-5.5	10.0	119.1	93	V
8/31/99	1243	4.5-5.0	14.9	111.4	92	III
8/31/99	1244	4.0-4.5	9.2	117.2	93	XII
8/31/99	1245	5.0-5.5	13.9	113.2	94	III
8/31/99	1246	3.5-4.0	13.4	110.2	94	XXX
8/31/99	1247	3.0-3.5	13.8	110.7	93	VII
8/31/99	1248	10.5-11.0	13.8	112.5	93	IV
8/31/99	1249	9.0-9.5	11.9	111.7	92	IV
8/31/99	1250	7.0-7.5	16.2	110.2	91	III
8/31/99	1251	9.0-9.5	15.5	103.9	94	I
8/31/99	1252	10.0-10.5	14.1	111.3	92	IV
8/31/99	1253	6.0-6.5	16.2	109.3	93	VI
8/31/99	1254	5.0-5.5	12.2	109.6	93	XXX
8/31/99	1255	7.0-7.5	15.1	109.5	93	VI
8/31/99	1256	4.5-5.0	16.3	109.2	90	III
8/31/99	1257	5.0-5.5	17.2	108.4	92	VI
8/31/99	1258	4.5-5.0	15.1	108.6	91	VII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

Date of Test	Test No.	*Depth	Percent Moisture	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil Type
8/31/99	1259	3.0-3.5	14.8	108.0	91	VII
9/1/99	1260	10.0-10.5	14.6	116.1	96	III
9/1/99	1261	9.0-9.5	13.8	115.1	95	III
9/1/99	1262	9.0-9.5	14.2	107.7	92	VIII
9/1/99	1263	9.0-9.5	15.2	109.4	93	VIII
9/1/99	1264	6.0-6.5	16.0	104.3	95	I
9/1/99	1265	7.0-7.5	15.3	110.1	94	VIII
9/1/99	1266	6.5-7.0	16.2	108.4	92	VI
9/1/99	1267	10.0-10.5	12.7	111.8	92	IV
9/1/99	1268	9.0-9.5	14.6	107.3	92	VIII
9/1/99	1269	8.0-8.5	15.8	110.5	94	VIII
9/1/99	1270	8.0-8.5	15.2	111.1	92	III
9/1/99	1271	7.0-7.5	16.2	111.9	92	III
9/2/99	1272	6.0-6.5	13.2	104.2	86	III
9/2/99	1272A**	6.0-6.5	14.8	111.5	92	III
9/2/99	1273	8.0-8.5	13.2	112.2	93	IV
9/2/99	1274	5.0-5.5	11.9	110.8	93	VII
9/2/99	1275	6.0-6.5	14.8	111.5	94	VII
9/2/99	1276	5.0-5.5	13.5	110.1	94	XXX
9/13/99	1277	5.0-5.5	13.2	107.8	92	XXX
9/13/99	1278	5.5-6.0	14.1	109.6	93	XXX
9/13/99	1279	8.0-8.5	13.9	107.1	91	XXX
9/14/99	1280	7.5-8.0	32.5	98.1	89	XXX
9/20/99	1280A**	7.5-8.0	13.2	111.3	95	XXX
9/14/99	1281	7.0-7.5	15.8	110.5	96	XXXI
9/14/99	1282	7.0-7.5	17.0	106.8	91	XXX
9/15/99	1283	5.0-5.5	8.9	114.4	91	XXXII
9/15/99	1284	4.0-4.5	14.6	104.3	93	II
9/15/99	1285	3.0-3.5	11.2	117.8	92	V
9/15/99	1286	2.0-2.5	14.3	109.4	93	VI
9/15/99	1287	0.5-1.0	15.2	108.5	93	VIII
9/20/99	1288	5.0-5.5	10.2	113.4	95	XXII
9/20/99	1289	5.0-5.5	9.1	111.8	94	XXII
10/12/99	1290	4.5-5.0	10.0	114.9	92	XXXIII
10/12/99	1291	6.0-6.5	11.6	112.5	95	VII
10/12/99	1292	7.0-7.5	10.8	115.5	92	XXXIII
10/13/99	1293	8.0-8.5	12.2	114.1	91	XI
10/13/99	1294	4.0-4.5	10.3	118.8	95	XXXIII
10/13/99	1295	5.0-5.5	9.8	115.7	92	XXXIII
10/13/99	1296	5.5-6.0	11.9	115.2	92	XXXIII
10/13/99	1297	2.5-3.0	10.6	113.9	91	XXXIII
10/13/99	1298	2.0-2.5	15.2	105.0	91	XXXI
10/14/99	1299	5.0-5.5	10.4	104.2	88	XXII
10/14/99	1299A**	5.0-5.5	8.7	113.2	95	XXII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
10/14/99	1300	5.0-5.5	12.4	109.4	92	XXII
10/14/99	1301	3.0-3.5	11.3	105.0	92	XXXIII
10/14/99	1302	6.5-7.0	8.9	114.2	91	XXXIII
10/14/99	1303	3.0-3.5	9.6	115.9	92	XXXIII
10/14/99	1304	2.5-3.0	17.0	106.9	91	XXX
10/14/99	1305	6.0-6.5	14.6	107.9	92	XXX
10/15/99	1306	6.0-6.5	9.8	114.8	92	XXV
10/15/99	1307	3.5-4.0	13.4	113.0	90	XXXIII
10/15/99	1308	4.0-4.5	13.4	107.6	92	XXX
10/15/99	1309	3.5-4.0	12.7	117.2	93	XXXIII
10/15/99	1310	7.0-7.5	12.9	114.0	91	XXXIII
10/15/99	1311	6.0-6.5	11.8	110.4	93	VII
10/15/99	1312	6.5-7.0	10.9	108.2	92	XXX
10/15/99	1313	3.5-4.0	12.7	110.0	93	VII
10/15/99	1314	5.0-5.5	11.6	113.0	90	XXXIII
10/18/99	1315	4.5-5.0	13.4	114.6	91	XXXIII
10/18/99	1316	4.0-4.5	9.1	118.7	94	XIII
10/18/99	1317	2.5-3.0	12.0	108.0	92	XXX
10/18/99	1318	5.5-6.0	9.1	118.0	92	V
10/18/99	1319	2.0-2.5	12.7	119.7	94	V
10/18/99	1320	2.0-2.5	10.7	114.7	91	XIII
10/18/99	1321	2.5-3.0	14.8	117.6	92	V
10/18/99	1322	3.0-3.5	12.5	115.6	90	V
10/18/99	1323	2.5-3.0	12.7	116.2	93	XXXIII
10/18/99	1324	3.0-3.5	11.1	112.5	96	XXX
10/19/99	1325	2.0-2.5	9.3	117.4	94	XXX
10/19/99	1326	2.0-2.5	11.8	120.5	96	XXXIII
10/19/99	1327	3.5-4.0	12.0	115.2	92	XXXIII
10/19/99	1328	4.0-4.5	13.9	113.3	90	XXXIII
10/19/99	1329	3.0-3.5	11.8	114.5	91	XXXIII
10/19/99	1330	3.5-4.0	9.1	116.4	93	XXXIII
10/19/99	1331	3.5-4.0	12.7	115.4	92	XXXIII
10/19/99	1332	2.0-2.5	13.9	114.9	92	XXXIII
10/19/99	1333	2.0-2.5	12.7	112.7	90	XXXII
10/19/99	1334	0.5-1.0	8.5	108.7	91	XXXIII
10/19/99	1335	1.0-1.5	9.7	112.1	93	XXXIII
10/19/99	1336	2.0-2.5	14.6	109.9	94	XXX
10/19/99	1337	3.5-4.0	11.3	115.0	92	XXXIII
10/19/99	1338	2.0-2.5	10.0	117.2	93	XXXIII
10/19/99	1339	2.5-3.0	14.1	104.7	89	XXX
10/20/99	1339A**	2.5-3.0	11.3	118.3	94	XXX
10/20/99	1340	2.0-2.5	12.0	114.3	91	XXXIII
10/20/99	1341	2.5-3.0	13.9	109.7	93	XXX
10/20/99	1342	3.0-3.5	11.8	107.3	91	XXX

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

NorCal Engineering

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
10/20/99	1343	2.0-2.5	13.0	111.5	94	VII
10/20/99	1344	2.5-3.0	13.6	110.0	94	XXX
10/20/99	1345	2.0-2.5	10.7	114.7	91	XXXIII
10/20/99	1346	0.0-0.5	12.9	113.7	90	XXXIII
10/20/99	1347	0.5-1.0	11.1	111.6	95	VIII
10/20/99	1348	0.5-1.0	10.4	112.3	94	XXII
10/20/99	1349	0.5-1.0	11.1	112.5	94	XIII
10/21/99	1350	0.0-0.5	11.1	113.4	94	XXIII
10/21/99	1351	0.5-1.0	10.6	115.7	92	XXXIII
10/21/99	1352	0.5-1.0	13.2	108.7	93	XXX
10/21/99	1353	3.0-3.5	12.1	108.8	93	XXX
10/21/99	1354	1.5-2.0	11.2	117.8	94	XXXIII
10/21/99	1355	3.5-4.0	11.8	117.2	93	XXXIII
10/21/99	1356	1.0-1.5	10.7	115.6	92	XIII
10/22/99	1357	3.5-4.0	10.8	115.5	92	XXXIII
10/22/99	1358	3.0-3.5	9.7	114.9	92	XXXIII
10/22/99	1359	3.0-3.5	11.3	116.8	93	XXXIII
10/22/99	1360	3.0-3.5	10.5	118.6	94	XIII
10/22/99	1361	2.0-2.5	11.7	119.1	95	XXXIII
10/25/99	1362	2.0-2.5	10.2	108.9	87	XXXIII
10/25/99	1362A**	2.0-2.5	10.4	117.8	94	XXXIII
10/25/99	1363	1.5-2.0	11.4	114.9	92	XXXIII
10/25/99	1364	1.5-2.0	10.3	115.1	92	XXXIII
10/25/99	1365	1.0-1.5	11.8	113.6	91	XXXIII
10/25/99	1366	1.0-1.5	9.8	118.4	94	XXXIII
10/26/99	1367	2.5-3.0	10.8	118.2	94	XXXIII
10/26/99	1368	2.0-2.5	9.7	115.8	92	XXXIII
10/26/99	1369	2.0-2.5	11.3	115.0	92	XXXIII
10/26/99	1370	1.5-2.0	10.7	117.4	94	XXXIII
10/26/99	1371	1.0-1.5	13.2	109.5	94	XXX
10/26/99	1372	1.0-1.5	9.9	115.6	92	XXXIII
10/26/99	1373	1.5-2.0	10.2	115.2	92	XXXIII
10/26/99	1374	1.0-1.5	10.8	115.5	92	XXXIII
10/26/99	1375	1.0-1.5	11.4	117.6	94	XXXIII
10/26/99	1376	0.5-1.0	9.6	116.8	93	XXXIII
10/26/99	1377	0.5-1.0	11.3	113.2	91	XXV
10/26/99	1378	0.5-1.0	9.2	117.2	94	XXV
10/28/99	1379	0.0-0.5	9.6	116.8	93	XXXIII
10/28/99	1380	0.0-0.5	10.1	114.4	91	XXXIII
10/28/99	1381	0.0-0.5	10.3	116.9	93	XIII
10/28/99	1382	0.0-0.5	8.8	115.8	92	XIII
10/29/99	1383	0.0-0.5	9.8	115.7	92	XXXIII
10/29/99	1384	0.0-0.5	10.2	117.9	94	XXXIII
11/1/99	1385	0.0-0.5	8.8	114.9	91	XIII

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

**TABLE II**  
**COMPACTION TEST RESULTS**

<u>Date of Test</u>	<u>Test No.</u>	<u>*Depth</u>	<u>Percent Moisture</u>	<u>Unit Wt. lbs./cu.ft.</u>	<u>Relative Compaction</u>	<u>Soil Type</u>
11/1/99	1386	4.0-4.5	8.7	105.8	87	IV
11/1/99	1386A**	4.0-4.5	11.3	112.3	93	IV
11/1/99	1387	3.0-3.5	10.7	115.6	92	XXXIII
11/1/99	1388	2.0-2.5	11.3	115.0	92	XXXIII
11/1/99	1389	0.0-0.5	10.4	115.0	92	XI

\*Depth below finish grade (in feet)

\*\*Retest of failing tests after area reworked

# NorCal Engineering

Soils and Geotechnical Consultants  
10641 Humbolt Street Los Alamitos, CA 90720  
(562)799-9469 FAX (562)799-9459

**CITY OF LOS ANGELES**  
**DEPARTMENT OF BUILDING AND SAFETY**  
**ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS**

JOB ADDRESS: West of Harborgate Way bet. 190<sup>th</sup> St. at 203<sup>rd</sup> St., Los Angeles

SOIL TESTING AGENCY: NorCal Engineering

PROPERTY OWNER'S NAME: Boeing Realty Corporation

OWNER'S ADDRESS: 4060 Lakewood Boulevard, Long Beach

PER REPORTS ON OUR PROJECT NUMBER: 5936-96

DATE OF WORK STARTED ON PROJECT: 6/18/98

DATE FILL WAS COMPLETED: 11/1/99

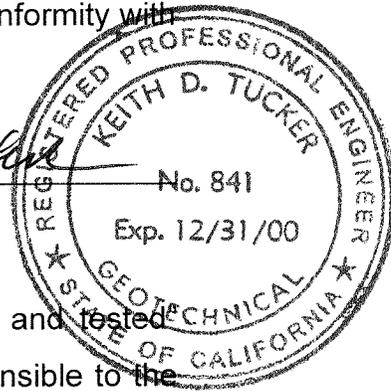
DATE OF THIS CERTIFICATE: 1/20/00

TO THE SUPERINTENDENT OF BUILDING:

I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformity with the requirements of the Los Angeles City Building Code.

*Keith D. Tucker*

Keith D. Tucker  
R.G.E. 841



\*For the purpose of this certificate, to have "personally inspected and tested" shall include inspection and testing performed by any person responsible to the licensed engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.

